

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 2 August 2001 (02.08.2001)

(10) International Publication Number WO 01/55320 A2

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(51) I	International Pat	ent Classification ⁷ : C	12N	60/226,868	22 August 2000 (22.08.2000)	U
(31) I		P. A. N. I. DOWNSON	1000	60/227,182	22 August 2000 (22.08.2000)	U
(21) 1	international Ap	plication Number: PCT/US01/0	11339	60/226,681	22 August 2000 (22.08.2000)	U
(22) 1	International Fili	ng Date: 17 January 2001 (17.01.	2001)	60/227,009	23 August 2000 (23.08.2000)	U
(22) 1	international Fin	ing Date: 17 January 2001 (17.01.	2001)	60/228,924	30 August 2000 (30.08.2000)	U
(25) F	Filing Language:	Fr	nglish	60/229,344	1 September 2000 (01.09.2000)	U
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(26) F	Publication Lang	uage: Ei	nglish	60/229,287	1 September 2000 (01.09.2000)	U
` '			Ü	60/229,345	1 September 2000 (01.09.2000)	U
(30) F	Priority Data:			60/229,513	5 September 2000 (05.09.2000)	U
6	50/179,065	31 January 2000 (31.01.2000)	US	60/229,509	5 September 2000 (05.09.2000)	U
6	50/180,628	4 February 2000 (04.02.2000)	US	60/230,438	6 September 2000 (06.09.2000)	U
6	60/184,664	24 February 2000 (24.02.2000)	US	60/230,437	6 September 2000 (06.09.2000)	U
6	50/186,350	2 March 2000 (02.03.2000)	US	60/231,413	8 September 2000 (08.09.2000)	U
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	60/226,279	18 August 2000 (18.08.2000)	US	60/236,367	29 September 2000 (29.09.2000)	U

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(54) Title: NUCLEIC ACIDS, PROTEINS, AND ANTIBODIES

(57) Abstract: The present invention relates to novel reproductive system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "reproductive system related antigens", and the use of such reproductive system related antigens for detecting disorders of the reproductive system, particularly the presence of cancers and cancer metastases. More specifically, isolated reproductive system associated nucleic acid molecules are provided encoding novel reproductive system associated polypeptides. Novel reproductive system related polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human reproductive system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the reproductive system, including reproductive system cancers, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.



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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- without international search report and to be republished upon receipt of that report
- entirely in electronic form (except for this front page) and available upon request from the International Bureau

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Nucleic Acids, Proteins, and Antibodies

[001] This application refers to a "Sequence Listing" that is provided only on electronic media in computer readable form pursuant to Administrative Instructions Section 801(a)(i). The Sequence Listing forms a part of this description pursuant to Rule 5.2 and Administrative Instructions Sections 801 to 806, and is hereby incorporated in its entirety.

[002] The Sequence Listing is provided as an electronic file (PC006PCT_seqList.txt, 20,399,961 bytes in size, created on January 12, 2001) on four identical compact discs (CD-R), labeled "COPY 1," "COPY 2," "COPY 3," and "CRF." The Sequence Listing complies with Annex C of the Administrative Instructions, and may be viewed, for example, on an IBM-PC machine running the MS-Windows operating system by using the V viewer software, version 2000 (see World Wide Web URL: http://www.fileviewer.com).

Field of the Invention

[003] The present invention relates to novel reproductive system related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "reproductive system antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such reproductive system polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, including, but not limited to, the presence of cancer and cancer metastases. More specifically, isolated reproductive system nucleic acid molecules are provided encoding novel reproductive system polypeptides. Novel

reproductive system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human reproductive system polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the reproductive system, including cancers of the reproductive system, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

Background of the Invention

[004] The human reproductive system enables continuation of the species. Human beings reproduce sexually, require the involvement of both a male and a female. Reproduction involves the coalition of sex cells. A new human being begins its development after a sex cell (sperm), created by the male unites with a sex cell (ovum) created by the female. Both the male and female reproductive systems function through the complex interaction of several organs. Diseases or malfunctions of these organs can impair reproduction or cause infertility.

The Male Reproductive System

Male reproductive functions can be divided into three major subdivisions; spermatogenesis (the formation and maturation of sperm), performance of the male sexual act (arousal, erection, and ejaculation), and regulation of male sexual functions by the various hormones (mainly testosterone). Associated with these reproductive functions are the effects of the male sex hormones on the accessory sexual organs, cellular metabolism, growth, and on several other bodily functions. The onset of sexual maturation and these reproductive functions in males occurs at puberty, which, in humans, typically begins around age thirteen.

[006] The male reproductive system is composed of the testes, a pair of organs contained in the scrotum which include the seminiferous tubules and epididymus;

secretory glands, such as the prostate gland, seminal vesicles, bulbourethral glands, and urethral glands; tubular passageways, such as the vas deferens and urethra; and the penis, which functions in performance of the sexual act and sperm transmission.

[007] Common disorders of the male reproductive system include infections, cancers, and inflammations of the above listed components, which are described in greater detail below.

Disorders of the Testes

[008] The two primary functions of the testes are 1) production of testosterone and 2) production of sperm. Testosterone produced in the testes is released into the blood stream, where it travels to and acts on a wide range of tissues and organs within the male body. Disorders resulting from testosterone deficiency are manifested in the male reproductive system typically by symptoms of hypogonadism, which is the failure to go through puberty. Specifically, erectile function is impaired, and libido and sperm production are decreased or absent.

[009] Known dysfunctions of sperm production include aspermia (the failure to produce an ejaculate), asthenospermia (the production of an ejaculate in which less than 50% of spermatozoa are motile), azoospermia (the production of an ejaculate devoid of spermatozoa), oligospermia (production of an ejaculate containing less than 20x100 spermatozoa per milliliter of semen), and teratospermia (the production of an ejaculate in which more than 50% of the spermatozoa are of abnormal shape), all of which result in impaired fertility. Improper sperm formation may result from a variety of factors, including congenital defects, genetic abnormalities, injury, and infection. For example, contraction of the mumps virus early in male adolescence can infect the testicles, leading to permanent complications in sperm production.

- [010] Sperm formation may also be impaired by disorders of the epididymus, the labyrinthine tube system located in each testis where sperm mature. Common disorders include infections (e.g., Neisseria gonorrhoea, Pseudomonas, Enterobacteriaceae, and Chlamydia trachomatis), cyst formation or other obstructions, and enlargement of the spermatoceles (liquid filled cavities in the epididymus).
- [011] During fetal development, the testes mature within the abdominal cavity and descend through the inguinal canal into the scrotum prior to birth. It is well known

that the testicles reside in the scrotum because it is cooler than other places within the body cavity, and even minor temperature differences can have a dramatic influence on the ability of the testicle to make sperm. An undescended testicle, sometimes called a cryptorchid testicle, is a fairly common problem in male babies. Typically, testicles undescended at birth will move into the scrotum within the first year of life, however in a small percentage of cases this migration does not occur. Early correction of this problem is crucial in preserving the fertility of the male, as the testicles begin to loose the ability to make sperm very early in life in they are not properly stored in the scrotum. Additionally, undescended testicles have a much higher rate of developing testicular cancer than testicles that descended spontaneously. Testicular cancer is the most common solid tumor in males aged 18 to 35. It typically is extremely aggressive and spreads early. A tumor of the testicle often shows itself by a fast enlargement of the testicle. Bringing the testes into the scrotum will allow for easier and more accurate examination of the testes, hopefully resulting in earlier detection of tumors. Further, undescended testicles are also associated with a greater risk of hernia.

- [012] Disorders of the scrotal pouch commonly involve the small amount of fluid lining the pouch that allows for small movements and cushioning of the testicles. Several causes, such as testicular torsion, trauma, or tumors, may lead to an increase in the amount of liquid, causing the scrotal pouch to bulge. While this condition is harmless, it may cause irritation and discomfort if the bulge becomes too large.
- [013] Another harmless, yet irritating disease of the testes is varicocele, a disorder of the small vein that run the blood from the testicle back toward the heart. Small valves are present in these veins to prevent blood from flowing back toward the testicles. Sometimes, these valves malfunction, causing backflow and subsequent enlargement of the small vessel network in the scrotal sac. This gives rise to dull pain and an uncomfortable "bag of worms" feeling around the scrotum. There is currently considerable debate as to whether this phenomenon also contributes to decreased fertility.

Disorders of the Vas Deferens and Seminal Vesicles

[014] In the vas deferens, the sperm become mixed with a viscous, alkaline fluid from the seminal vesicles that constitutes 60% of semen. This fluid contains the

components for generating sperm motility and the enzymes necessary for fertilization of the egg within the female reproductive system. Disorders of the vas deferens and seminal vesicles are unusual, however a congenital defect where the vas deferens is absent is known to be associated with mutations in the CFTR gene, and a defect in seminal vesicle function is associated with the hydatid disease of the urogenital system.

Disorders of the Prostate Gland

Disorders of the prostate gland are typically manifested by enlargement of the gland, leading to such symptoms as impaired urinary flow, infertility, and pain. For example, benign prostatic hyperplasia is the non-cancerous growth of the prostate gland, a condition that is fairly common in men over sixty. Prostate cancer, too, is extremely prevalent and is now the second most common type of cancer in males. Although men of any age can develop prostate cancer, it is found most frequently in men over age 50. Types of prostate cancers include, but not limited to, adenocarcinomas, transitional cell carcinomas, ductal carcinomas, and squamous cell carcinomas. The prostate is subject to infections or inflammation, which may also result in enlargement of the prostate, such as acute bacterial prostatitis, chronic bacterial prostatitis, and nonbacterial prostatitis.

Disorders of the Penis and Urethra

During sexual activity, the penis becomes rigid and erect, enabling penetration and deposition of sperm. An erection results from complex interaction of neurologic, vascular, hormonal, and psychologic actions. Several types of infections and inflammatory disorders can effect the penis and its function. Balanoposthitis is a generalized inflammation of the head of the penis (glans penis) and foreskin, commonly caused by a yeast or bacterial infection beneath the foreskin of an uncircumcised penis. Symptoms include pain, itching, redness, and swelling and can ultimately lead to a narrowing (stricture) of the urethra. Other infectious and inflammatory disorders, such as balanitis xerotica obliterans (a hardening of the tip of the penis which ultimately blocks urine and semen flow), phimosis (the shrinking or tightening of the foreskin), paraphimosis (inability of the retracted foreskin to be

pulled back over the head of the penis), and Erythroplasia of Queyrat (an infection causing a clearly defined reddish, velvety area on the skin of the penis). If left untreated, many of these infections may become cancerous.

- [017] Other infections can lead to penile growths, such as the small painless sores associated with syphilis, tiny blisters from the herpes simplex virus, firm nodules from genital warts, and dimpled growths (molluscum contagiosum) from an unknown virus. Small sores and growths are also associated with skin cancers (e.g., squamous cell carcinoma, Bowen's disease, and Paget's disease) that can occur anywhere on the penis.
- Priapism is a painful, persistant erection unaccompanied by sexual desire or excitement. In most cases, priapism is believed to stem from habitual drug use, but is had also been associated with blood disorders (e.g., blood clots, leukemia, or sickle cell disease), tumors in the pelvis or spine, and infection of the genitals. Peyronie's disease is manifested as a fibrous thickening of tissue that causes the penis to develop contractures so that the shape of an erection is distorted. The curvature of the erect penis can make sexual penetration difficult or impossible and may make erections extremely painful. Current therapies include corticosteroid injections, ultrasound treatments, or, more commonly, surgery, which may lead to impotence.
- [019] Impotence, or erectile dysfunction, is the consistent or recurrent inability to attain and maintain a penile erection rigid enough for satisfactory sexual intercourse. Erectile dysfunction relates only to the erectile capability of the penis, excluding problems of libido, ejaculation, and orgasm. It is now accepted that the majority of cases have a physical and not a psychogenic root. Physical causes include anatomic deformations (e.g., malformed genitalia or penile injury), diabetes mellitus, coronary disease, hypertension, atherosclerosis, high cholesterol levels, multiple sclerosis, stroke, lower spine diseases, and rectal or prostate surgery.

The Female Reproductive System

[020] The female reproductive system is comprised of both external and internal organs. The external organs function in permitting sperm to enter the body and protecting the internal genital organs from infection and injury. The internal organs

form a pathway (the genital tract) for reproduction, beginning at the ovaries, through the fallopian tubes (oviducts) and uterus, to the birth canal (vagina).

[021] The sexual and reproductive functions in the female can be divided into two major phases: first, preparation of the body for conception, and second, the gestation and parturition. Gestation and parturition only occur if an ovum becomes fertilized. If fertilization does not occur, the reproductive system undergoes a cycle to ensure frequent readiness for conception and fertilization.

[022] Common disorders of the female reproductive system include infections, cancers, and inflammations of the organs, which are described in greater detail below.

Disorders of the Uterus

Disorders of the uterus include absent bleeding (amenorrhea) and abnormal bleeding. Amenorrhea is normal only before puberty, during pregnancy, while breastfeeding, and after menopause. The absence of menses at other times is considered aberrant and may be indicative of problems in the brain, pituitary gland, thyroid gland, adrenal glands, ovaries, or virtually any other part of the reproductive tract. For example, the hypothalamus signals the pituitary gland to release hormones that cause the ovaries to release eggs. Inappropriately low levels of hypothalamic hormones prevent egg release, halting the menstrual cycle. The same is true for the thyroid and adrenal glands. To illustrate, in Cushing's syndrome, excess production of cortisol by the adrenal glands causes periods to be absent or irregular. The absence of periods can also be caused by growths (e.g., hydatidiform moles) or scarring of the uterine lining due to infection or surgery (e.g., Asherman's syndrome).

[024] Some women do not undergo puberty at all - consequently their periods never start. Causes include a birth defect in which the uterus or fallopian tubes develop abnormally and chromosomal disorders. For example, in Turner's syndrome, the female was formed from a zygote containing only one X chromosome and shows reproductive abnormalities, such as amenorrhea and chronically immature breasts, labia, vagina.

[025] Premature menopause is also a condition resulting in amenorrhea. Menopause is considered abnormal when it occurs in women under the age of forty. Causes of premature menopause include genetic (usually chromosomal) abnormalities and

autoimmune disorders in which antibodies damage the ovaries. Estrogen replacement therapy can prevent or reverse the symptoms of menopause, however the chance of conceiving a child remains less than ten percent.

- [026] Uterine bleeding is considered abnormal when it is atypically heavy, light, frequent, or irregular. Moreover, bleeding before puberty or after menopause is almost always abnormal. Uterine polyps, fibroids (noncancerous growths of muscle and fibrous tissues), and cancers are common causes of abnormal uterine bleeding and usually can be surgically removed. Cancers of the uterus include adenocarcinomas (cancers arising from the endometrial lining), leiomyosarcomas (cancers of the uterine smooth muscle), and sarcomas (cancers arising from the stroma).
- [027] Aberrant bleeding resulting from hormonal irregularities (commonly referred to a dysfunctional uterine bleeding) occurs most frequently at the beginning and end of the reproductive years and typically results from sustained levels of estrogen. For example, in polycystic ovary syndrome the overproduction of luteinizing hormone stimulates the production of large amounts of androgens some of which are converted to estrogen-which, without sufficient progesterone to counteract its effects, induces abnormal uterine bleeding.
- [028] Endometriosis is a disorder of the uterus in which patches of endometrial tissue, which normally is found only in the uterine lining, grow outside the uterus. Because the misplaced tissue responds to the same hormone that the uterus responds to, it may bleed during the menstrual period, causing cramps, pain, irritation, and the formation of scar tissue. As the disease progresses, adhesions may form and block the functioning of organs.
- [029] Disorders of uterine contraction include, for example, dysmenorrhea and preterm labor. During a normal period, the uterus undergoes mild contractions in order to aid in blood flow. Dysmenorrhea results when the contractions become inappropriately strong, inhibiting blood flow to the uterus. This deprives uterine muscle of oxygen, causing severe abdominal pain, as well as nausea, vomiting, diarrhea, headaches, weakness, and/or fainting. Sever cases of dysmenorrhea can significantly disrupt a womans life, leading to heavy work/school absenteeism and cases of pain killer addiction. Pre-term labor is also aserious problem, resulting in a dramatic rise in associated infant morbidity and mortality (83% of infant deaths occur

in gestations less than 37 weeks). Therapies for extending the length of pregnancy beyond 32 weeks, and preferably beyond 36 weeks, could significantly reduce the incidence of neonatal morbidity and virtually eliminate a major cause of neonatal mortality.

Disorders of the Ovary

- [030] Anovulation (the absence of egg release by the ovaries) is a serious condition leading to infertility. The exact etiology of anovulation, especially in women with otherwise normal menstrual cycles, is unclear, however several potential causes are under study, including: impaired follicular development (probably due to low or absent estrogen production or binding), normal follicular development with lack of egg release (probably due to progesterone deficiency), or insufficient production of gonadotropin-releasing hormone from the hypothalamus. Current treatments include clomiphene injections or hormonal therapy, although both can lead to serious side effects such as ovarian cancer and ovarian hyperstimulation syndrome.
- [031] Anovulation is also associated with polycyctic ovary syndrome (also known as Stein-Leventhal syndrome). This syndrome is and endocrine disorder characterized by an elevated level of male hormones (androgens). Other than anovulation, symptoms include growth of male-patterned body hair (hirsutism), excessive acne, irregular or absent menses, excessive bleeding, and obesity. Usually, the ovaries appear enlarged and may contain many follicular cysts.
- [032] Ovarian cancer develops most often in women between the ages of 50 and 70. It is the third most common cancer of the female reproductive system, but more women die of ovarian cancers than of any other. Ovaries include a variety of cell types, each of which may give rise to a distinct type of cancer, including, but not limited to, ovarian epithelial cancer, ovarian germ cell tumors, ovarian papillary serous adenocarcinoma, ovarian mucinous adenocarcinoma, ovarian Krukenberg tumor, malignant mixed Mullerian tumors, and ovarian low malignant tumors.
- [033] Other disorders of the ovaries also include, but are not limited to, inflammatory disorders, such as oophoritis (e.g., caused by viral or bacterial infection), ovarian cysts, and autoimmune disorders (e.g., premature ovarian failure and autoimmune oophoritis).

Disorders of the Vagina and Vulva

[034] The vagina and vulva are self-cleaning. Secretions and discharges flow downward through the vagina and vulva, flushing out dead cells and other substances. Despite this cleaning mechanism, infections and inflammation are a common problem. The most common vaginal infections are bacterial vaginitis, candida vaginitis (e.g., yeast infections), trichomonas vaginitis, and vulvitis. Vaginal or vulvar itching, irritation, and abnormal discharge characterize all.

[035] Cancer of the vagina is extremely rare, accounting for only two percent of all gynecological cancers, and occurs primarily in women over the age of 50. The severity of the disease depends on the type of cancer and its exact location. Varieties include, for example, squamous cell carcinoma and clear cell adenocarcinoma. Once cancer appears in the vagina, it easily spreads to surrounding tissues. Vulvar cancer is equally unusual as vaginal, and is predominantly manifested as a form of skin cancer, e.g. squamous cell carcinomas and basal cell carcinomas. Other vulvar cancers include Paget's disease, cancer of Bartholin's gland, and melanomas. Unlike cancer of the vagina, vulvar cancers typically grow slowly and infrequently metastasize.

Disorders of the Breast

- [036] Disorders of the breast typically involve the formation of lesions within breast tissue. While many of these lesions are benign in nature, they may lead to cancer if left untreated.
- [037] Benign breast lesions include, for example, cysts, which are non-cancerous, fluid-filled sacs that forma mass within breast tissue. The cause of breast cysts is unknown, though injury may be involved, and their main symptom is pain. While considered harmless, a professional should drain cysts and the fluid examined because cancer of the cyst wall, although quite rare, is possible.
- [038] Other benign breast lesions include fibrous breast lumps (fibroadenomas), breast infection (mastitis), intraductal papilloma, and abscesses. Fibrous breast lumps are small, solid lumps of glandular tissue. These lumps usually appear in young women, often in teenagers, and are easy to remove. Intraductal papilloma are small lumps located within a milk duct, often causing inappropriate discharge from the

nipple. Breast abscesses are collections of pus in breast tissue that develop from breast infections that go untreated.

Breast cancer is the most common cancer among women, other than skin cancer and is the second leading cause of cancer death in women, after lung cancer. The American Cancer Society predicts that there will be about 182,800 new cases of invasive breast cancer in the year 2000 among women in this country and about 40,800 deaths from the disease. Breast cancer also occurs among men, although much less often. It is generally believed that this malignancy arises from a multi step process involving mutations in a relatively small number of genes, perhaps 10 or less. These mutations result in significant changes in the growth and differentiation of breast tissue that allow it to grow independent of normal cellular controls, to metastasize, and to escape immune surveillance. The genetic heterogeneity of most breast cancers suggests that they arise by a variety of initiating events and that the characteristics of individual cancers are due to the collective pattern of genetic changes that accumulate.

The discovery of new human reproductive system associated polynucleotides, [040] the polypeptides encoded by them, and antibodies that immunospecifically bind these polypeptides, satisfies a need in the art by providing new compositions which are useful in the diagnosis, treatment, prevention and/or prognosis of disorders of the reproductive system, including, but not limited to, disorders of the male reproductive system including, for example, testicular disorders (e.g., hypogonadism, infection (e.g. Neisseria gonorrhoea, Enterobacteriaceae, and/or as described in the "Reproductive System Disorders" section below), asthenospermia, teatospermia, cryptorchid testicle, testicular cancers, varicocele, and/or as described in the "Reproductive System Disorders" section below), prostate disorders (e.g., prostate cancers, benign prostatic hyperplasia, and/or as described in the "Reproductive System Disorders" section below), disorders of the penis (e.g., balanoposthitis, phimosis, genital warts, skin cancer, priapism, Peyronie's disease, erectile dysfunction, and/or as described in the "Reproductive System Disorders" section below); and disorders of the female reproductive system including, for example, disorders of the uterus (e.g., Cushing's syndrome, Asherman's syndrome, Turner's syndrome, premature menopause, uterine cancers, endometriosis, and/or as described in the "Reproductive System Disorders" section below), ovarian disorders (e.g., anovulation, polycystic ovary syndrome,

ovarian cancers, and/or as described in the "Reproductive System Disorders" section below), vaginal and vulvar disorders (e.g., vulvitis, vaginal infections, Paget's disease, cancers of the vagina and vulva, and/or as described in the "Reproductive System Disorders" section below), and breast disorders (e.g., breast cancers, fibroadenomas, intraductal papillomas, and/or as described in the "Reproductive System Disorders" section below).

Summary of the Invention

[041] The present invention relates to novel reproductive system related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "reproductive system antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such reproductive system polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, including, but not limited to, the presence of cancer and More specifically, isolated reproductive system nucleic acid cancer metastases. molecules are provided encoding novel reproductive system polypeptides. Novel reproductive system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human reproductive system polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the reproductive system, including cancers of the reproductive system, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

Detailed Description

Tables

[042] Table 1A summarizes some of the polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) and contig nucleotide sequence identifier (SEQ ID NO:X)) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby. The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA plasmid related to each reproductive system associated contig sequence disclosed in Table 1A. The second column provides a unique contig identifier, "Contig ID:" for each of the contig sequences disclosed in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for each of the contig polynucleotide sequences disclosed in Table 1A. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:X that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1A as SEQ ID NO:Y (column 5). Column 6 lists residues comprising predicted epitopes contained in the polypeptides encoded by each of the preferred ORFs (SEQ ID NO:Y). Identification of potential immunogenic regions was performed according to the method of Jameson and Wolf (CABIOS, 4:181-186 (1988)); specifically, the Genetics Computer Group (GCG) implementation of this algorithm, embodied in the program PEPTIDESTRUCTURE (Wisconsin Package v10.0, Genetics Computer Group (GCG), Madison, Wisc.). This method returns a measure of the probability that a given residue is found on the surface of the protein. Regions where the antigenic index score is greater than 0.9 over at least 6 amino acids are indicated in Table 1A as "Predicted Epitopes." In particular embodiments, reproductive system associated polypeptides of the invention comprise, or alternatively consist of, one, two, three, four, five or more of the predicted epitopes described in Table 1A. It will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly. Column 7, "Tissue Distribution" shows the expression profile of tissue, cells, and/or cell line libraries which express the polynucleotides of the invention. The first

number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. Expression of these polynucleotides was not observed in the other tissues and/or cell libraries tested. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon), represents the number of times a sequence corresponding to the reference polynucleotide sequence (e.g., SEQ ID NO:X) was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array, cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ³³P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. Column 8, "Cytologic Band," provides the chromosomal location of polynucleotides corresponding to SEQ ID NO:X. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Given a presumptive chromosomal location, disease locus association was determined by comparison with the Morbid Map, derived from Online Mendelian Inheritance in Man (Online Mendelian

Inheritance in Man, OMIMTM. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine (Bethesda, MD) 2000. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/). If the putative chromosomal location of the Query overlapped with the chromosomal location of a Morbid Map entry, an OMIM identification number is provided in Table 1A, column 9 labeled "OMIM Disease Reference(s)". A key to the OMIM reference identification numbers is provided in Table 5.

[043] Table 1B summarizes additional polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) contig nucleotide sequence identifiers (SEO ID NO:X)), and genomic sequences (SEQ ID NO:B). The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to each contig sequence. The second column provides the sequence identifier, "SEO ID NO:X", for each contig sequence. The third column provides a unique contig identifier, "Contig ID:" for each contig sequence. The fourth column, provides a BAC identifier "BAC ID NO:A" for the BAC clone referenced in the corresponding row of the table. The fifth column provides the nucleotide sequence identifier, "SEQ ID NO:B" for a fragment of the BAC clone identified in column four of the corresponding row of the table. The sixth column, "Exon From-To", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:B which delineate certain polynucleotides of the invention that are also exemplary members of polynucleotide sequences that encode polypeptides of the invention (e.g., polypeptides containing amino acid sequences encoded by the polynucleotide sequences delineated in column six, and fragments and variants thereof).

Table 2 summarizes homology and features of some of the polypeptides of the invention. The first column provides a unique clone identifier, "Clone ID NO:Z", corresponding to a cDNA disclosed in Table 1A. The second column provides the unique contig identifier, "Contig ID:" corresponding to contigs in Table 1A and allowing for correlation with the information in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity

disclosed in the row was determined. Comparisons were made between polypeptides encoded by the polynucleotides of the invention and either a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFAM") as further described below. The fifth column provides a description of PFAM/NR hits having significant matches to a polypeptide of the invention. Column six provides the accession number of the PFAM/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Columns 8 and 9, "NT From" and "NT To" respectively, delineate the polynucleotides in "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFAM/NR database as disclosed in the fifth column. In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, an amino acid sequence encoded by the polynucleotides in SEQ ID NO:X as delineated in columns 8 and 9, or fragments or variants thereof.

Table 3 provides polynucleotide sequences that may be disclaimed according [045] to certain embodiments of the invention. The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to reproductive system associated contig sequences disclosed in Table 1A. The second column provides the sequence identifier, "SEQ ID NO:X", for contig polynucleotide sequences disclosed in Table 1A. The third column provides the unique contig identifier, "Contig ID", for contigs disclosed in Table 1A. The fourth column provides a unique integer 'a' where 'a' is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X. represented as "Range of a", and the fifth column provides a unique integer 'b' where 'b' is any integer between 15 and the final nucleotide of SEQ ID NO:X, represented as "Range of b", where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. For each of the polynucleotides shown as SEQ ID NO:X, the uniquely defined integers can be substituted into the general formula of a-b, and used to describe polynucleotides which may be preferably excluded from the invention. In certain embodiments, preferably excluded from the polynucleotides of the invention (including polynucleotide fragments and variants as described herein and diagnostic and/or therapeutic uses based on these polynucleotides) are at least one, two, three, four, five, ten, or more of the polynucleotide sequence(s) having the accession number(s) disclosed in the sixth

column of this Table (including for example, published sequence in connection with a particular BAC clone). In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table (including for example, the actual sequence contained in an identified BAC clone).

- Table 4 provides a key to the tissue/cell source identifier code disclosed in Table 1A, column 7. Column 1 provides the key to the tissue/cell source identifier code disclosed in Table 1A, Column 7. Columns 2-5 provide a description of the tissue or cell source. Codes corresponding to diseased tissues are indicated in column 6 with the word "disease". The use of the word "disease" in column 6 is non-limiting. The tissue or cell source may be specific (e.g. a neoplasm), or may be disease-associated (e.g., a tissue sample from a normal portion of a diseased organ). Furthermore, tissues and/or cells lacking the "disease" designation may still be derived from sources directly or indirectly involved in a disease state or disorder, and therefore may have a further utility in that disease state or disorder. In numerous cases where the tissue/cell source is a library, column 7 identifies the vector used to generate the library.
- Table 5 provides a key to the OMIM™ reference identification numbers disclosed in Table 1A, column 9. OMIM reference identification numbers (Column 1) were derived from Online Mendelian Inheritance in Man (Online Mendelian Inheritance in Man, OMIM™. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine, (Bethesda, MD) 2000. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/). Column 2 provides diseases associated with the cytologic band disclosed in Table 1A, column 8, as determined from the Morbid Map database.
- [048] Table 6 summarizes ATCC Deposits, Deposit dates, and ATCC designation numbers of deposits made with the ATCC in connection with the present application.
- [049] Table 7 shows the cDNA libraries sequenced, tissue source description, vector information and ATCC designation numbers relating to these cDNA libraries.
- [050] Table 8 provides a physical characterization of clones encompassed by the invention. The first column provides the unique clone identifier, "Clone ID NO:Z",

for certain cDNA clones of the invention, as described in Table 1A. The second column provides the size of the cDNA insert contained in the corresponding cDNA clone.

Definitions

[051] The following definitions are provided to facilitate understanding of certain terms used throughout this specification.

In the present invention, "isolated" refers to material removed from its original environment (e.g., the natural environment if it is naturally occurring), and thus is altered "by the hand of man" from its natural state. For example, an isolated polynucleotide could be part of a vector or a composition of matter, or could be contained within a cell, and still be "isolated" because that vector, composition of matter, or particular cell is not the original environment of the polynucleotide. The term "isolated" does not refer to genomic or cDNA libraries, whole cell total or mRNA preparations, genomic DNA preparations (including those separated by electrophoresis and transferred onto blots), sheared whole cell genomic DNA preparations or other compositions where the art demonstrates no distinguishing features of the polynucleotide sequences of the present invention.

As used herein, a "polynucleotide" refers to a molecule having a nucleic acid sequence encoding SEQ ID NO:Y or a fragment or variant thereof, a nucleic acid sequence contained in SEQ ID NO:X (as described in column 3 of Table 1A) or the complement thereof, a cDNA sequence contained in Clone ID NO:Z (as described in column 1 of Table 1A and contained within a library deposited with the ATCC); a nucleotide sequence encoding the polypeptide encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B or a fragment or variant thereof; or a nucleotide coding sequence in SEQ ID NO:B as defined in column 6 of Table 1B or the complement thereof. For example, the polynucleotide can contain the nucleotide sequence of the full length cDNA sequence, including the 5' and 3' untranslated sequences, the coding region, as well as fragments, epitopes, domains, and variants of the nucleic acid sequence. Moreover, as used herein, a "polypeptide" refers to a molecule having an amino acid sequence encoded by a polynucleotide of the invention as broadly defined (obviously excluding poly-Phenylalanine or poly-Lysine peptide

sequences which result from translation of a polyA tail of a sequence corresponding to a cDNA).

polynucleotide disclosed herein (e.g., a nucleic acid sequence contained in SEQ ID NO:X or the complement therof, or cDNA sequence contained in Clone ID NO:Z, or a nucleotide sequence encoding the polypeptide encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B, or a nucleotide coding sequence in SEQ ID NO:B as defined in column 6 of Table 1B or the complement thereof and fragments or variants thereof as described herein) or any polypeptide disclosed herein (e.g., an amino acid sequence contained in SEQ ID NO:Y, an amino acid sequence encoded by SEQ ID NO:X, or the complement thereof, an amino acid sequence encoded by the cDNA sequence contained in Clone ID NO:Z, an amino acid sequence encoded by SEQ ID NO:B, or the complement thereof, and fragments or variants thereof as described herein). These reproductive system antigens have been determined to be predominantly expressed in reproductive system tissues, including normal or diseased tissues (as shown in Table 1A column 7 and Table 4).

In the present invention, "SEQ ID NO:X" was often generated by overlapping [055] sequences contained in multiple clones (contig analysis). A representative clone containing all or most of the sequence for SEQ ID NO:X is deposited at Human Genome Sciences, Inc. (HGS) in a catalogued and archived library. As shown, for example, in column 1 of Table 1A, each clone is identified by a cDNA Clone ID (identifier generally referred to herein as Clone ID NO:Z). Each Clone ID is unique to an individual clone and the Clone ID is all the information needed to retrieve a given clone from the HGS library. Furthermore, certain clones disclosed in this application have been deposited with the ATCC on October 5, 2000, having the ATCC designation numbers PTA 2574 and PTA 2575; and on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2. In addition to the individual cDNA clone deposits, most of the cDNA libraries from which the clones were derived were deposited at the American Type Culture Collection (hereinafter "ATCC"). Table 7 provides a list of the deposited cDNA libraries. One can use the Clone ID NO:Z to determine the library source by reference to Tables 6 and 7. Table 7 lists the deposited cDNA libraries by name and links each library to an ATCC

Deposit. Library names contain four characters, for example, "HTWE." The name of a cDNA clone (Clone ID NO:Z) isolated from that library begins with the same four characters, for example "HTWEP07". As mentioned below, Table 1A correlates the Clone ID NO:Z names with SEQ ID NO:X. Thus, starting with an SEQ ID NO:X, one can use Tables 1A, 6 and 7 to determine the corresponding Clone ID NO:Z, which library it came from and which ATCC deposit the library is contained in Furthermore, it is possible to retrieve a given cDNA clone from the source library by techniques known in the art and described elsewhere herein. The ATCC is located at 10801 University Boulevard, Manassas, Virginia 20110-2209, USA. The ATCC deposits were made pursuant to the terms of the Budapest Treaty on the international recognition of the deposit of microorganisms for the purposes of patent procedure.

least 30, at least 50, at least 100, at least 125, at least 500, or at least 1000 continuous nucleotides but are less than or equal to 300 kb, 200 kb, 100 kb, 50 kb, 15 kb, 10 kb, 7.5 kb, 5 kb, 2.5 kb, 2.0 kb, or 1 kb, in length. In a further embodiment, polynucleotides of the invention comprise a portion of the coding sequences, as disclosed herein, but do not comprise all or a portion of any intron. In another embodiment, the polynucleotides comprising coding sequences do not contain coding sequences of a genomic flanking gene (i.e., 5' or 3' to the gene of interest in the genome). In other embodiments, the polynucleotides of the invention do not contain the coding sequence of more than 1000, 500, 250, 100, 50, 25, 20, 15, 10, 5, 4, 3, 2, or 1 genomic flanking gene(s).

[057] A "polynucleotide" of the present invention also includes those polynucleotides capable of hybridizing, under stringent hybridization conditions, to sequences contained in SEQ ID NO:X, or the complement thereof (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments described herein), the polynucleotide sequence delineated in columns 8 and 9 of Table 2 or the complement thereof, and/or cDNA sequences contained in Clone ID NO:Z (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments, or the cDNA clone within the pool of cDNA clones deposited with the ATCC, described herein) and/or the polynucleotide sequence delineated in column 6 of Table 1B or the complement thereof. "Stringent hybridization conditions" refers to an overnight incubation at 42

degree C in a solution comprising 50% formamide, 5x SSC (750 mM NaCl, 75 mM trisodium citrate), 50 mM sodium phosphate (pH 7.6), 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA, followed by washing the filters in 0.1x SSC at about 65 degree C.

- [058] Also contemplated are nucleic acid molecules that hybridize to the polynucleotides of the present invention at lower stringency hybridization conditions. Changes in the stringency of hybridization and signal detection are primarily accomplished through the manipulation of formamide concentration (lower percentages of formamide result in lowered stringency), salt conditions, or temperature. For example, lower stringency conditions include an overnight incubation at 37 degree C in a solution comprising 6X SSPE (20X SSPE = 3M NaCl; 0.2M NaH₂PO₄; 0.02M EDTA, pH 7.4), 0.5% SDS, 30% formamide, 100 ug/ml salmon sperm blocking DNA; followed by washes at 50 degree C with 1XSSPE, 0.1% SDS. In addition, to achieve even lower stringency, washes performed following stringent hybridization can be done at higher salt concentrations (e.g. 5X SSC).
- [059] Note that variations in the above conditions may be accomplished through the inclusion and/or substitution of alternate blocking reagents used to suppress background in hybridization experiments. Typical blocking reagents include Denhardt's reagent, BLOTTO, heparin, denatured salmon sperm DNA, and commercially available proprietary formulations. The inclusion of specific blocking reagents may require modification of the hybridization conditions described above, due to problems with compatibility.
- [060] Of course, a polynucleotide which hybridizes only to polyA+ sequences (such as any 3' terminal polyA+ tract of a cDNA shown in the sequence listing), or to a complementary stretch of T (or U) residues, would not be included in the definition of "polynucleotide," since such a polynucleotide would hybridize to any nucleic acid molecule containing a poly (A) stretch or the complement thereof (e.g., practically any double-stranded cDNA clone generated using oligo dT as a primer).
- [061] The polynucleotide of the present invention can be composed of any polyribonucleotide or polydeoxribonucleotide, which may be unmodified RNA or DNA or modified RNA or DNA. For example, polynucleotides can be composed of single- and double-stranded DNA, DNA that is a mixture of single- and double-

stranded regions, single- and double-stranded RNA, and RNA that is mixture of single- and double-stranded regions, hybrid molecules comprising DNA and RNA that may be single-stranded or, more typically, double-stranded or a mixture of single- and double-stranded regions. In addition, the polynucleotide can be composed of triple-stranded regions comprising RNA or DNA or both RNA and DNA. A polynucleotide may also contain one or more modified bases or DNA or RNA backbones modified for stability or for other reasons. "Modified" bases include, for example, tritylated bases and unusual bases such as inosine. A variety of modifications can be made to DNA and RNA; thus, "polynucleotide" embraces chemically, enzymatically, or metabolically modified forms.

[062] The polypeptide of the present invention can be composed of amino acids joined to each other by peptide bonds or modified peptide bonds, i.e., peptide isosteres, and may contain amino acids other than the 20 gene-encoded amino acids. The polypeptides may be modified by either natural processes, such as posttranslational processing, or by chemical modification techniques which are well known in the art. Such modifications are well described in basic texts and in more detailed monographs, as well as in a voluminous research literature. Modifications can occur anywhere in a polypeptide, including the peptide backbone, the amino acid side-chains and the amino or carboxyl termini. It will be appreciated that the same type of modification may be present in the same or varying degrees at several sites in a given polypeptide. Also, a given polypeptide may contain many types of Polypeptides may be branched, for example, as a result of modifications. ubiquitination, and they may be cyclic, with or without branching. Cyclic, branched, and branched cyclic polypeptides may result from posttranslation natural processes or may be made by synthetic methods. Modifications include acetylation, acylation, ADP-ribosylation, amidation, covalent attachment of flavin, covalent attachment of a heme moiety, covalent attachment of a nucleotide or nucleotide derivative, covalent attachment of a lipid or lipid derivative, covalent attachment of phosphotidylinositol, cross-linking, cyclization, disulfide bond formation, demethylation, formation of covalent cross-links, formation of cysteine, formation of pyroglutamate, formylation, gamma-carboxylation, glycosylation, GPI anchor formation, hydroxylation, iodination, methylation. myristoylation, oxidation, pegylation, proteolytic

phosphorylation, prenylation, racemization, selenoylation, sulfation, transfer-RNA mediated addition of amino acids to proteins such as arginylation, and ubiquitination. (See, for instance, PROTEINS - STRUCTURE AND MOLECULAR PROPERTIES, 2nd Ed., T. E. Creighton, W. H. Freeman and Company, New York (1993); POSTTRANSLATIONAL COVALENT MODIFICATION OF PROTEINS, B. C. Johnson, Ed., Academic Press, New York, pgs. 1-12 (1983); Seifter et al., Meth. Enzymol. 182:626-646 (1990); Rattan et al., Ann. N.Y. Acad. Sci. 663:48-62 (1992).)

- [063] "SEQ ID NO:X" refers to a polynucleotide sequence described, for example, in Tables 1A or 2, while "SEQ ID NO:Y" refers to a polypeptide sequence described in column 5 of Table 1A. SEQ ID NO:X is identified by an integer specified in column 3 of Table 1A. The polypeptide sequence SEQ ID NO:Y is a translated open reading frame (ORF) encoded by polynucleotide SEQ ID NO:X. "Clone ID NO:Z" refers to a cDNA clone described in column 1 of Table 1A.
- "A polypeptide having biological activity" refers to a polypeptide exhibiting activity similar to, but not necessarily identical to, an activity of a polypeptide of the present invention, including mature forms, as measured in a particular biological assay, with or without dose dependency. In the case where dose dependency does exist, it need not be identical to that of the polypeptide, but rather substantially similar to the dose-dependence in a given activity as compared to the polypeptide of the present invention (i.e., the candidate polypeptide will exhibit greater activity or not more than about 25-fold less and, preferably, not more than about tenfold less activity, and most preferably, not more than about three-fold less activity relative to the polypeptide of the present invention).
- [065] Table 1A summarizes some of the reproductive system associated polynucleotides encompassed by the invention (including contig sequences (SEQ ID NO:X) and clones (Clone ID NO:Z) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby.

Polynucleotides and Polypeptides

OMIM	Disease	Reference(s):					,		1 '			1	,					•			t.				
Cytologic	Band			1.1				ı	(,						
Tissue Distribution	Library code: count	(see Table IV for	Library Codes)	S0286: 1 and S0284: 1.	S0284: 2 and L0758: 1.	AR054: 6, AR050: 2,	AR051: 1, AR089: 1,	AR061: 0	S0284: 2			L0770: 3, H0686: 1,	H0634: 1, L0761: 1,	L0772: 1, L0764: 1,	L0805: 1, L0786: 1 and	L0779: 1.	H0295: 2 and L0748:	2.		,	H0295: 1 and H0435:	1.	H0295: 2	H0295: 3 and H0294:	H0295: 2
Predicted Epitopes	•					Glu-9 to Gly-22,	Lys-50 to Lys-69,	Gly-91 to Arg-107,	Pro-113 to Ile-129,	Tyr-131 to Gln-137.		Pro-17 to Glu-28,	Gly-86 to Ser-92.	•			Glu-16 to Pro-21,	Leu-28 to Asp-34,	Glu-39 to Ser-56,	Glu-59 to Gly-67.				Ala-55 to Phe-72.	
ΑA	SEQ		X :ON	2698	5696	2700					5338	2701					2702				2703		2704	2705	2706
ORF	(From-To)			71 - 3	125 - 3	100 - 510		ı			3 - 824	2 - 355					449 - 661				1 - 198		2 - 70	17 - 367	3 - 59
Contig SEQ ID	NO: X			11	12	13		•			2651	14					15				16		17	18	19
Contig	Ä			928554	722780	847688					887805	952380					764671				664979		783259	839982	522004
Clone ID	NO: Z			H7MCE35	H7MDC49	H7MDD72						HAOSH55					HAQAK73 764671				HAQAM17		HAQBF84	HAQBJ71	HAQBQ50

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														,				,				104770,	107670,	110700,	135940,
																						1q21			
H0295: 2, L0649: 1, L0663: 1, H0435: 1 and H0670: 1.	H0294: 2 and H0435:	H0294: 2	H0664: 2	H0663: 1 and S0152: 1	H0663: 2	H0663: 2, L0758: 2,	L0748: 1 and L0591: 1.	L0749: 2, H0663: 1,	H0662: 1 and L0438: 1.	H0181: 2	H0181: 1 and H0617:	1.	H0662: 2, H0181: 2,	L0766: 2, L0455: 1,	L0740: 1, L0779: 1 and	L0362: 1.	H0553: 2, H0181: 2,	L0743: 2, L0639: 1,	L0787: 1, L0790: 1,	L0747: 1, L0780: 1,	L0752: 1 and L0755: 1.	H0181: 2			
			Val-17 to Thr-27.		Arg-1 to Trp-15.	Glu-24 to Lys-29,	Lys-35 to Gln-40.	Gly-1 to Gly-6,	Gly-41 to Pro-46.	Asn-37 to Gly-44.	Pro-31 to Glu-36:				ı					ı		Val-57 to Leu-66,	Val-79 to Gly-84.		
2707	2708	2709	2710	2711	2712	2713		2714		2715	2716		2717		•		2718					2719			
159 - 437	3 - 134	209 - 337	228 - 374	15 - 140	138 - 1	3-317		390 - 575		3 - 185	2 - 184.	-	1 - 420				1 - 195					1 - 324			
20	21	22	23	24	25	26		27		28	29		30				31					32			
847519	529711	968339	957826	963634	922401	951787		930682		525846	02826		922396				524532					954299			T
HAQBS37 847519	HAUBD69	HAUBU10	HBCJS08	HBCPD14	. 1	HBCQS90		HBCQS93		HBGBD28	HBGBF56		HBGBG42				HBGBH43			-		HBGBS07			

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145001,	146790,	152445,	152445,	159001,	174000,	179755,	182860,	182860,	182860,	191315,	230800,	230800,	266200	600897	601105	601412	601652,	602491											
	-								**********					,															
										,			,						H0181: 2	H0617: 2 and H0181:	1.	H0181: 2 and H0617:	II.	110101:2	H0181: 2	H0181: 1 and H0617:	110101.7	HU181: 3	L0040: 1, H0188: 1,
-										-									Arg-7 to Trp-17.			Glu-1 to Gly-9.	Thr. 1 to Dro 6	Dro 6 to 1 cm 12	F10-0 to Leu-12.		Trn 8 to Cla 20	11p-6 to GIII-20.	Gin-19 to Glu-24,
																			2720	2721		2722	2723	2724	2124	2725	2726	27.70	1717
	,															1			109 - 306	52 - 492	,	31 - 156	163 - 507	1 - 132	701 001	122 - 259	2-220	277 7	3 - 302
													٠						33	34		35	36	37	6	38	39	\$ 6	£
																			525352	954916	72000	524956	525618	524875	001100	0601/6	974223	054306	224200
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H0606: 1, L0762: 1,	L0803: 1, L0774: 1 and L0509: 1.	H0617: 2	H0617: 3	L0764: 2, L0783: 2,	H0182: 1, H0617: 1,	H0616: 1, L0765: 1,	L0375: 1, L0659: 1,	L0809: 1, L0663: 1,	L0731: 1 and L0361: 1.	H0617: 2	AR089: 15, AR061: 10	H0617: 8, L0763: 2,	L0754: 2, H0483: 1 and	L0743: 1.		H0617: 2	H0617: 2, L0758: 2,	H0181: 1, L0521: 1,	L0666: 1 and L0779: 1.				H0617: 3	٠			
Arg-29 to Pro-35,	Ser-4 / to Ser-56, Pro-58 to Ser-64.	Thr-1 to Ser-6, Thr-23 to Pro-30.	Leu-36 to Asn-42.	Pro-13 to Ser-19,	Pro-60 to Ala-76,	Asp-78 to Gly-85.				Arg-71 to Arg-76.	Arg-37 to Phe-48,	Asp-55 to Asp-63,	Gly-73 to Ala-80,	Gln-147 to Trp-154,	Val-176 to Lys-191.		Gly-1 to Arg-8,	Gly-17 to Val-25,	Gln-27 to Gln-32,	Ala-56 to Gly-64,	Glu-121 to Thr-129,	Arg-156 to Asp-174.	Gly-3 to Thr-15,	Pro-49 to Ser-54,	Pro-56 to His-63,	Gly-81 to Pro-87,	Pro-92 to Thr-98.
		2728	2729	2730						2731	2732					2733	2734						2735				
		266 - 589	84 - 329	162 - 434		1				22 - 279	575 - 3	·				82 - 162	1 - 522						1 - 330				
		. 41	42	43						44	45					46	47						48				
		870189	933763	966132		,				845194	947112					958257	848219						914594				
		HBGMD05 870189	HBGMD62	HBGMF10 966132						HBGMG29	HBGMZ39 947112					HBGNA08	HBGND09						HBGNJ14				

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H0617: 2	H0181: 1 and H0617:	1.			AR054: 129, AR051:	118, AR050: 110	H0617: 4 and L0770:	2.		H0617: 2, H0663: 1	and H0181: 1.	H0617: 2, L0439: 2,	L0771: 1, L0766: 1,	L0779: 1 and L0752: 1.			H0617: 2		H0617: 2	L0041: 2, H0617: 2,	L0659: 1, L0438: 1 and	L0601: 1.	H0617: 2		H0617: 2, L0780: 1,	L0752: 1 and L0594: 1.	H0617: 4	H0617: 3
	Glu-14 to Cys-20,	Glu-22 to His-32,	Asp-39 to Thr-52,	Lys-92 to Asp-101.	Cys-7 to Gly-12,	Ser-19 to Thr-26,	Ala-31 to Leu-36,	Ser-47 to Ser-57,	Glu-75 to Phe-83.	Gly-58 to Pro-69.		Thr-21 to Lys-27,	Cys-33 to Pro-38,	Lys-68 to Trp-103,	Pro-118 to Val-124,	Pro-129 to Lys-137.	Leu-30 to Thr-56,	Arg-61 to Thr-71.		i	1		Gly-22 to Ala-31,	Arg-58 to Trp-73.	Leu-14 to Pro-20,	Ser-49 to Ile-55.		Pro-13 to Arg-26.
2736	2737				2738					2739		2740					2741		2742	2743			2744		2745		2746	2747
12 - 197	2 - 358				2 - 268		ł			24 - 263	-	10 - 420					195 - 599		3 - 278	1 - 369			1 - 219		158 - 340		14 - 274	2 - 205
49	50				51	•				25		53					54		55	26			27		28		59	09
912730	952212				887152					968696		883111					967261		848156	958290			926876		918513		973425	930706
HBGNM13	HBGNO07				HBGNQ31					HBGNW29		HBGOB07					HBG0J28		HBGOK53	HBGOL08			HBGPE04		HBGPH02		HBGPK33	HBGPV05

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																			17p13.1				,			
H0181: 1 and H0617:	1.	L0777: 3, H0617: 2,	L0731: 2, H0606: 1,	L0769: 1, L0803: 1,	L0743: 1, L0744: 1,	L0750: 1 and L0779: 1.			H0617: 3	L0794: 3, H0617: 2,	L0750: 1 and L0758: 1.	AR051: 23, AR050:	17, AR054: 16	H0617: 4	,				H0253: 1 and H0188:	H0618: 1 and H0188:	H0188: 2	H0188: 2		H0188: 2	H0188: 2	H0188: 2 and L0603:
Met-3 to Asn-8,	Ala-11 to Pro-39.	Arg-4 to His-10,	Pro-14 to Thr-20,	Glu-28 to Arg-35,	Thr-40 to Ser-56,	Thr-61 to Ser-75,	Pro-93 to Arg-102,	Asp-118 to Arg-124.	Pro-70 to Arg-78.	Pro-28 to Trp-34.		Asp-43 to Arg-49,	Glu-55 to Asp-64,	Glu-75 to Arg-81,	Leu-89 to Gly-98,	Leu-110 to Lys-115,	Asn-131 to Thr-141,	Asn-152 to Lys-160.	Ser-8 to Leu-20.		-	Asn-3 to Ser-15,	Lys-21 to Asn-30.	Gly-21 to Pro-27.		Leu-14 to Thr-20.
2748		2749							2750	2751		2752							2753	2754	2755	2756		2757	2758	2759.
1 - 309	,	3 - 413							1 - 273	13 - 201		3 - 581			1				1 - 138	86 - 271	1 - 231	123 - 302		2 - 226	1 - 87	245 - 400
61		62							63	64		. 65							. 99	29	68	69		70	71	72
954302		923142							965509	914573		886529							966536	008099	655514	655842		524954	530843	558193
нвсосе6		HBGSD40							HBGTK11	HBGTL01		HBGTR84							HBNAB01	HBNAF14	HBNAI71	HBNAN41		HBNAW92	HBNAX71	HBNAY58

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						123620	138720,	145410	188826,	231950,	239500,	275350,	600850															
						22q11.2-q13.2	•		,	1																		
H0188: 2	S0188: 2		S0190: 2	S0190: 2	S0190: 2	H0059: 1 and S0190: 1.22q11.2-q13.2 123620,								H0661: 1 and H0553:	H0661-2	TOTAL OF THE PERSON OF THE PER	L0770: 3, L0776: 3,	10686: I, H0661: I,	.0021: 1, L0761: 1,	L0766: 1, L0659: 1,	.0647: 1, L0752: 1 and	.0605: 1.	H0661: 2	S0398: 2	S0398: 2	S0398: 2		L0758: 13, H0253: 4,
Gln-48 to Pro-56.	Phe-13 to Phe-18,	Gly-23 to Arg-38.	Ser-1 to Ser-11.	Thr-29 to Arg-34.		Val-3 to Lys-9.								Ser-1 to Met-6.	1	1 00 1	Lys-28 to Phe-34.				<u> </u>	-	Lys-33 to Arg-38.			Thr-6 to Leu-12,	Tyr-19 to Lys-28.	Ser-10 to Gly-23.
2760	2761		2762	2763	2764	2765								2766	2767	0720	80/7						2769	2770	2771	2772		2773
201 - 380	1 - 330		93 - 212	116 - 301	2 - 352	111 - 383	1				'			322 - 119	183 - 521	0 120	8 - 130						2 - 283	3 - 125	2 - 181	22 - 120		2-901
73	74		75	.92	11	78								79	08	0.1	10						82	83	84	85		98
524869	692559		625619	760418	655737	664013	,							914333	950897	051820	070166			•			922351	915613	835781	726339		915239
HBNBT52	HBZAJ09		HBZSH16	HBZSH71	HBZSI73	HBZSK17								HCBMV01	HCBNW02	HCBNW07 051820	11CDIAWO/					T	T		HCDMB16	HCDMB60		HCDMC01

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					300077,	300500,	300650,	301200,	302350,	302950,	308700,	311200, 312040		,												
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H0618: 3, H0038: 1, L0779: 1 and S0398: 1.	S0398: 2	H0483: 2	H0483: 2		H0483: 2					1			H0483: 1 and H0550:	1	H0483: 4 and H0484:	1.	H0484: 2	H0616: 7, L0758: 5,	H0484: 1, H0040: 1,	L0768: 1, L0774: 1 and	L0775: 1.	H0484: 2			H0484: 1 and H0483:	1.
		Lys-29 to Arg-34.	Cys-1 to Pro-10,	Thr-19 to Glu-28, Arg-36 to Asn-44.	Ser-24 to Gly-29,	Asn-47 to Pro-53,	Pro-74 to Gly-79.						Phe-24 to Gln-30,	Gln-32 to Leu-42.	Asp-1 to Phe-21.			Glu-14 to Ser-21,	Asp-67 to Asp-73.			Leu-26 to Cys-39,	Cys-41 to Lys-50,	Gly-87 to Glu-93.	Glu-11 to Gly-17,	Arg-25 to Ser-36.
	2774	2775	2776		2777								2778		2779		2780	2781				2782			2783	
-	2 - 184	78 - 269	3 - 134		1 - 366							,	1 - 318		190 - 459		35 - 343	144 - 455				1 - 321			2 - 214	
	87	88	86		90								91		95		93	94				95			96	
			675465		715128								665184		923763		668518	880282				740102			954866	
	HCDMD23	HCHAD40	HCHAR16		HCHAR43								HCHAR67		нснво03	20 20 22.00	HCHML32	HCHIND96				HCHOA76		-r	HCHOD89	

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H0484: 1 and H0483:	H0484: 2, L0803: 1 and L0758: 1.		AR089: 42, AR061: 34	H0651: 154, L0731: 9,	L0777: 6, L0803: 4,	L0775: 3, H0196: 2,	H0163: 2, L0662: 2,	L0805: 2, L0783: 2,	L0438: 2, L0740: 2,	L0759: 2, H0170: 1,	S0444: 1, H0592: 1,	H0632: 1, L0471: 1,	H0399: 1, H0615: 1,	H0040: 1, S0294: 1,	H0647: 1, L0598: 1,	L0763: 1, L0638: 1,	L0637: 1, L0642: 1,	L0374: 1, L0767: 1,	L0768: 1, L0794: 1,	L0804: 1, L0774: 1,	L0375: 1, L0776: 1,	L0606: 1, L0659: 1,	L0809: 1, L0647: 1,	L0789: 1, L0791: 1,	L0666: 1, L0663: 1,
Gly-1 to Gly-14.	Pro-13 to Gly-20, Ser-29 to Ala-45, Ser-66 to Ala-72,	Phe-74 to Trp-87, Pro-102 to Arg-107.	Ala-2 to Lys-10,	Glu-70 to Gln-76.						,				1	ı				-						
2784	2785		2786																						
1-129	3 - 455		522 - 896								ı														
26	86		66	-																					
717671	934941		927904								•														
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14			-				•		•	22q13.1-q13.2 103050,	,	÷					,	
L0664: 1, L0665: 1, H0659: 1, H0658: 1, H0672: 1, S0328: 1, H0539: 1, S0380: 1, L0439: 1, L0779: 1, L0594: 1, L0361: 1, S0026: 1, S0242: 1 and S0460: 1.	L0768: 2, H0150: 1 and H0670: 1.	H0670: 2	H0670: 2	H0670: 2	H0059: 1, L0803: 1	and H0670; 1.		,		AR089: 15, AR061: 5	H0662: 2, H0670: 1,	L0756: 1 and L0759: 1.						
	Arg-1 to Pro-10, Ile-21 to Gly-34.	Tyr-10 to Cys-17.	Ser-40 to Gly-45, Pro-55 to Asp-67.	Y	Val-19 to Trp-24,	Lys-70 to Lys-78,	Ser-83 to Leu-100,	Val-112 to Trp-117,	Thr-119 to Lys-125, Cys-133 to Pro-143.	Asp-43 to Glu-48.	,							
	2787	2788	2789	2790	2791					2792								
	120 - 296	68-3	75 - 458	83 - 283	1 - 471					89 - 592						_		
	100	101	102	103	104					105								,
	932878	925748	951665	191696	961595					902396								
	HCOMZ41	_	HCOOI07	HCOOM77	HCOOX10					HC00Z11					1			

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H0169: 2, L0809: 1,	H0670: 4, L0776: 2, L0666: 2, L0759: 2	H0661: 1, L0717: 1,	L0664: 1, L0779: 1,	L0777: 1, L0752: 1 and	L0755: 1.	H0670: 2 and L0366:	1.	H0670: 2	H0683: 122, L0740: 6,	L0747: 5, L0438: 4,	L0439: 4, L0756: 3,	H0156: 2, L0521: 2,	H0658: 2, L0754: 2,	L0750: 2, L0779: 2,	L0777: 2, L0731: 2,	L0759: 2, H0171: 1,	H0486: 1, H0244: 1,	H0427: 1, H0310: 1,	H0052: 1, H0263: 1,	H0596: 1, L0163: 1,	H0051: 1, H0328: 1,	S0112: 1, L0768: 1,	L0803: 1, L0774: 1,		L0783: 1, L0666: 1,	L0663: 1, H0670: 1,	H0648: 1, S0152: 1,
Gly-11 to Ser-16.	Gln-20 to Tyr-25, Asp-73 to Ser-79.	4				Ala-52 to Lys-58,	Gly-/2 to Arg-/9.		Glu-40 to Asn-46.					,				,									
2793	2794					2795		2796	2797		•																
259 - 585	409 - 684					292 - 564		187 - 429	1335 - 1553									-						•			
106	107					108		109	110											*							
954332	962299					969151	0.00	951658	961388														•				
HCOPP18	нсоое11					HCOQHI2	2000011	- 1	HE8SG46																		

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S0146: 1, H0478: 1, L0752: 1, L0758: 1 and S0412: 1.	AR061: 8, AR089: 5 H0038: 4, H0616: 3,	L0747: 3, L0663: 2, L0758: 2, H0369: 1,	H0428: 1, L0769: 1,	L0542: 1, L0809: 1, L0666: 1, L0665: 1.	L0743: 1, L0777: 1,	L0731: 1 and S0456: 1.	H0369: 2	H0369: 2 and H0664:	1.	H0369: 2	H0369: 1 and H0040;	1.	H0369: 2	H0369: 2	L0748: 3, H0369: 1	and H0031: 1.	H0369: 2	H0369: 2	H0369: 2 and L0747:	1.	H0534: 4 and H0533:	3.	H0549: 2
							Glu-7 to Arg-24.	His-33 to Val-39.					1		Phe-71 to Gln-78,	Lys-87 to His-95.	Gly-12 to Ile-18.	ŀ	Asp-25 to Glu-30,	Leu-39 to Val-48.	Ser-5 to Tyr-19,	Arg-22 to Thr-32.	Glu-21 to Lys-30,
	2798						2799	2800		2801	2802		2803	2804	2805		2806	2807	2808		2809		2810
	3 - 272						1 - 360	69 - 188		114 - 221	2 - 154		78 - 227	168 - 401	114 - 488		121 - 471	99 - 236	219 - 449		1 - 147		1-159
	111						112	113		114	115		116	117	118		119	120	121		122		123
	963100						574510	574232		574008	625096		932383	653242	531348		733632	968200	574508		752875		741305
	HEAAA42							HEAAK46			HEAAM52		HEAAN18		HEAAT36		HEAAT60	HEAAV10	HEAAV33	\neg	HEDAE67	_	HEEAD64

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	H0549: 2	H0549: 2		-	AKU34: 10, AKU31: 9,	AR050: 8	H0549; 2	H0549: 2	H0549: 2	H0369: 2 and H0549:	2.	H0549: 2	H0549: 2	H0549: 2 and L0600:		H0549: 2	H0549: 2	H0550: 2	•	H0550: 2	AR089: 13, AR061: 8	H0618: 2 and H0550:	1.	H0550: 2 and L0750:	H0550: 1 and H0328:	1.	H0550: 1, H0644: 1
Gly-33 to Ser-39.	Pro-44 to Phe-50.	Lys-25 to Gly-34,	Pro-42 to Trp-57, Lys-71 to Asp-82					Gly-24 to Leu-30.	Glu-12 to Gln-19.	Val-19 to Ser-25,	Arg-39 to Ser-60.		Ala-76 to Glv-84.	Ala-17 to Gly-30,	Arg-39 to Trp-46.	Lys-12 to Trp-17.	Phe-27 to Trp-32.	Gly-1 to Glu-10,	Gly-41 to Val-47.	Ser-52 to Trp-58.	Ile-30 to Gly-36,	Thr-67 to Thr-72.	1	Ser-48 to Lys-54.			Ala-51 to Glu-60,
	2811	2812		2813	6107			2814	2815	2816		2817	2818	2819		2820	2821	2822		2823	2824			2825	2826		2827
	1 - 150-	246 - 1		3-332	400-0	· · · · · ·		140 - 253	167 - 283	3 - 203		1 - 147	3-278	1 - 228	*	55 - 195	28 - 168	1 - 204		150 - 425	1 - 351			281 - 475	113 - 355		1 - 330
	124	125		126	27			127	128	129		130	131	132		133	134	135		136	137			138	139	,	140
	851219	785121		887321				673904	780838	887312		676721	735620	706935		851213	626299	676716		767284	823900			/54344	965183	0000	167556
	HEEAH07	HEEAJ58		HEEAJ76				HEEAK22	HEEAK84	HEEAL31		HEEAN24	HEEAS58	HEEAU79		HEEAW01	HEEAW13	HEGAA24		HEGAA73	HEGAB84		- 1	HEGAC69	HEGAC95	100.4.00.1	HEGA182

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and L0659: 1.	AR054: 16, AR051: 5,	AR050: 3	H0550: 2 and L0749:	1.	AR089: 9, AR061: 7	H0550: 1 and H0253:	<u> </u>	L0754: 4, L0776: 2,	L0743: 2, L0750: 2,	L0779: 2, H0550: 1,	L0769: 1 and H0658: 1.	H0550: 2					H0550: 2	H0550: 1, H0212: 1.	L0745: 1 and L0746: 1.	H0550: 2	,		H0550: 2		AR050: 66, AR054:	55, AR051: 37, AR089:	11, AR061: 6	H0549: 1 and H0550:	1.
Pro-88 to Ser-104.	Ala-29 to Lys-51,	Arg-69 to His-75.			Lys-1 to Ser-52.			Asn-4 to Asn-10,	Gly-14 to Asp-21,	Leu-26 to Gly-39.		Gly-1 to Gly-10,	Glu-46 to Ser-52,	Pro-61 to Pro-67,	Arg-69 to Asp-75,	Ser-82 to Ser-87.	Tyr-36 to Thr-41.	Val-1 to Leu-6,	Arg-13 to Phe-18.	Leu-22 to Ser-28,	Lys-36 to Lys-43,	His-56 to Pro-65.	His-32 to Trp-37,	Pro-39 to Thr-53.	Leu-45 to Lys-50,	Gln-55 to Glu-74,	Thr-114 to Ile-119.		
	2828				2829			2830				2831					2832	2833		2834			2835		2836				
	54 - 305				3 - 326		,	3 - 254				59-319	•				117 - 239	462 - 644		1 - 195			1 - 204		12 - 560	•			7
	141				142			143				144					145	146		147			148		149				
	887299				780837			934705	•			697419					706951	719387		906669			726316		950033				1
	HEGAK04				HEGAO83			HEGAP06				HEGAP31					HEGAP36	HEGAR53		HEGAY32		\neg	HEGAY52	7	HEGAZ61	•	-		

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			155555,	155555,	227650,	253000,	602783				120215, 120215,	190198			•							147200,	178640,	216900		
			16q24.3								9q34.2-q34.3											2p12				
H0150: 2	H0150: 2		AR050: 154, AR051:	146, AR054: 141	H0150: 3	·		H0150: 2	H0150: 3 and L0763:	1.	H0150: 2		H0150: 2			H0549: 1, H0150: 1,	L0761: 1 and L0764: 1.	H0150: 2		L0758: 3, H0150: 2,	L0803: 1 and L0779: 1.	H0150: 2			H0150: 2	H0150: 2, L0369: 1
Ala-6 to Gln-12.	Ser-7 to Asp-20, Thr-30 to Phe-41,	Gly-55 to Gly-61.	Ala-20 to Gln-36,	Pro-38 to Asn-50.					Ile-14 to Leu-22.	, a.e.	His-1 to Thr-9.	٠	Asn-1 to Lys-7,	Leu-27 to His-32,	Arg-34 to Pro-50.	Pro-4 to Arg-1-3,	Val-34 to Asp-40.	Ser-9 to Leu-20,	Thr-38 to Thr-44.	Leu-13 to Lys-21.						
2837	2838		2839					2840	2841	0,00	7847		2843			2844		2845		2846		2847			2848	2849
91 - 204	90 - 353		3 - 176	•				132 - 257	3 - 113	71.	I - /2		73 - 309			284 - 583		2 - 154		250 - 360		3 - 167			105 - 284	3 - 260
150	151		152					153	154	166	155		156			157		158		159		160		ļ	191	162
509456	557149		888726		•		0000	509002	509452	505070	200043		518331			925146		208706		508694		926914		10000	708//1	884083
HEPAA44	HEPAB70		HEPAD09				27 2 1 2 2 1	HEPAD40	HEPAD82	LIEDA 170	HEF AN / O	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	HEPAK01			HEPAK41		HEPAM29		HEPAN19		HEPAP02		TITE A DIS	HEPAP12	HEPAS44

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and L0532: 1.	AR061: 44, AR089: 13	H0150: 10, H0549: 5,	H0176: 1, L0790: 1 and	L0779: 1.	H0150: 3	H0150: 4	H0150: 2	H0150: 2 and L0717:		H0150: 2, L0809: 1,	L0731: 1 and L0758: 1.	H0150: 2	H0150: 3	H0150: 5	H0150: 2	AB050 7 AB054 1	H0150: 3	H0150: 2	H0549: 2 and H0150:	2.	H0150: 2 and H0165:	1.	H0150: 2	H0150: 2	AR051: 15, AR054: 2,	AR050: 0	H0150: 4, H0038: 3,	L0758: 3 and L0779: 2.
	His-1 to Met-10.	٠						Asp-15 to Gly-21,	Gln-32 to Lys-45.	Glu-7 to Gln-12.					Pro-4 to Ser-12.	His-25 to Ile-31		Ala-1 to Asp-7.	Pro-12 to Gly-22.		Asp-18 to Thr-28.		,		Ser-20 to Lys-30,	Ala-43 to Ser-48,	Ser-65 to Thr-72,	Thr-112 to Thr-118,
	2850				2851	2852	2853	2854		2855		2856	2857	2858	2859	2860		2861	2862		2863		2864	2865	2866			
	3 - 518				42 - 179	72 - 323	4 - 204	92 - 229		171 - 290		99 - 257	193 - 312	112 - 216	91 291	272 - 460		123 - 296	2 - 445		37 - 297	,	2 - 121	19 - 117	227 - 685			
	163				164	165	166	167		168		169	170	171	172	173		174	175		176	10.	1//	178	179			
	919875				508684	855597	967921	208686		508673		707524	508696	269888	713836	888693		968665	715685		523670	27 2023	229343	761094	947081			1
	HEPBA39				HEPBB24	HEPBB60	HEPBG26	HEPBG35		HEPBH28		HEPBH38	HEPBH45	HEPBO69	HEPBQ47	HEPBQ69		HEPBS10	HEPBX43	3 3 3 3 3 3	HEPCD36	UEDCESE	nerCE23	_ 1	HEPCT32			

				120940, 217050, 217050, 217070, 245050, 600837, 600946, 600946,	,		
-				108904, 120940, 217050, 217070, 245050, 600837, 600946, 600946,			
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	AR051: 9, AR054: 8, AR050: 1, AR061: 0, AR089: 0 H0150: 2, H0270: 1, H0032: 1, H0212: 1 and		AR089: 1, AR061: 0 H0544: 1 and H0435:	1. H0544: 2		H0544: 2 and L0748: 2.	H0544: 1 and H0038: 1.
Ala-139 to Arg-147.		Arg-57 to Arg-64, Arg-106 to Arg-116, Gln-128 to Pro-135.	Pro-11 to Gly-16, Gln-37 to Gln-43.	Ser-3 to Phe-65,	Glu-78 to Ala-91, Ala-95 to Ser-116.		Pro-1 to Glu-15, Pro-29 to Val-35.
	2867	5339	2868	2870		2871	2872
	448 - 975	345 - 872	2 - 160	86 - 436		10 - 180	80 - 529
		2652	181	183		184	185
	931824	946975	911438	769973		727051	712243
	HEPCU32		HEQAE65	HEQA076		HEQAZ52	HEQBA41

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H0046: 2	H0046: 3	H0046: 2 and L0748:	5	H0046: 2	H0046: 3				H0046: 6	H0046: 4	H0046: 2	H0046: 2	H0046: 4	H0046: 3	H0046: 5	ı	ī	H0046: 3		H0046: 3	H0046: 58 and H0616:	-	H0046: 1 and S0004: 1.	H0046: 2	H0046: 2	H0046: 3		H0046: 2 and L0741:
Asn-13 to Cys-19.	Pro-22 to Gln-32.	Lys-1 to Val-24,	Val-27 to Leu-32.	-	Asn-1 to Gly-13,	Val-23 to Ser-28,	Ala-52 to Thr-63,	Asp-75 to Thr-80.	Lys-14 to Pro-22.		Ser-20 to Pro-25.			Gln-15 to Ser-21.	2884 - Pro-13 to Gln-22,	Arg-24 to Cys-30,	Thr-35 to Lys-40.	Ile-18 to Gln-23,	Ser-36 to Ser-41.	r			Arg-35 to Glu-40.			Asp-11 to Gln-18,	Pro-38 to Ser-43.	Phe-1 to Ser-6,
2873	2874	2875		9287	2877				2878	2879	2880	2881	2882	2883	2884 -			2885		2886	2887		2888	2889	2890	2891		2892
3 - 89	61 - 273	63 - 362		3 - 248	1 - 348		١		161 - 364	128 - 226	3 - 164	3 - 290	2 - 202	162 - 305	17 - 136			2 - 313		1 - 162	634 - 801		156 - 275	33 - 203	1 - 138	81 - 257		3-311
186	187	188		189	190				191	192	193	194	195	196	197			198		199	200		201	202	203	204		205
509311	509308	209306		509300	942612				799665	535390	508994	518156	535359	509118	960392			60836		934444	918730		536192	509189	508655	720853		509099
HETAD29	HETAF20	HETAF49		HETAF89	HETAH16			,	HETAH66	HETAH67	HETAJ26	HETAK75	HETAN20	HETAP59	HETAP94			HETAR06		HETAR60	HETAT83		HETAZ13	HETBA01	HETBF45	HETBH48		HETBR25

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		H0046: 2		H0046: 5, L0748: 2	and L0527: 1.	H0046: 3 and L0748:		H0046: 68, S0013: 2,	H0369: 1, H0431: 1,	H0013: 1, H0156: 1 and	S0014: 1.					H0046: 2	H0046: 2	H0046: 2 and H0648:		H0046: 3	H0046: 1 and H0615:	H0046: 3 and L0617:						
Arg-26 to Lys-31,	Arg-54 to Ser-59.	Thr-3 to Thr-9,	Ala-24 to Cys-27.			Gly-20 to Gly-27.		Asn-1 to Ile-20,	Tyr-29 to Lys-41,	Thr-68 to Gln-74,	Asp-88 to Tyr-101,	Lys-108 to Cys-116,	Thr-136 to Thr-145,	Thr-158 to Cys-171,	Ser-183 to Pro-188.		Ala-32 to Pro-57.	Thr-56 to Pro-62,	Asp-76 to Gly-81.	His-3 to Asn-10.	Lys-25 to Asn-35.	Tyr-1 to Ala-9.						
		2893		2894		2895		2896								2897	2898	2899		2900	2901	2902		-				
		3 - 125		354 - 647		143 - 307	١	542 - 1249			1					121 - 204	31 - 201	119 - 361		149 - 283	107 - 364	54 - 398						
		506		202		208		209								210	211	212		213	214	215						
		523046	1	971505		999809		841924								921390	522829	525412		509110	883018	855509		·.				
		HETBW39		HETCE12		HETCE55		HETCG63								HETCH92	HETCL55	HETDA81		HETDD18	HETDE67	HETDE86						

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			1							300123,	301201,	301845,	301900,	304340,	307150,	307700,	308000,	308000,	309000,	310490,	313850				
										Xq26.1															·
H0046: 10 and S0152:	H0046: 2	H0046: 2	H0046: 2	H0031: 2 and H0046:	1.	H0046: 2 and L0756: 1.	H0046: 2	H0046: 9	H0046: 5	H0046: 2			•						1			H0046: 3	·		H0046: 5 and L0665: 1.
	Asn-1 to Arg-14.		Leu-1 to Ser-6.					His-7 to Thr-22.	Arg-1 to Ile-29.	Asn-8 to Trp-15,	Leu-20 to Ser-32.			,		1					•	Asn-1 to Asp-10,	Asp-25 to Gly-30,	Asp-45 to Asp-56.	
2903	2904	2905	2906	2907		2908	2909	2910	2911	2912												2913			2914
446 - 652	1 - 159	146 - 274	131 - 235	116 - 295		191 - 397	180 - 281	39 - 248	1 - 273	189 - 359			,									195 - 476			1 - 543
216	217	218	219	220		221	222	223	224	225												226			227
028096	925489	208990	695021	525407		660714	827093	917400	952297	529591												523112			799658
HETDG67 960870	HETDI03	HETDL92	HETDN90	HETDP21		HETDT15	HETDW59	HETEB68	HETEQ16	HETEZ43												HETFA40			HETFC82

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H0046: 14	H0046: 3, H0618: 1, H0038: 1 and H0616: 1.			H0046: 53, H0616: 1	and L0664: 1.						•				H0046: 2	H0046: 2	H0046: 9			H0046: 2	H0046: 2	H0046: 2 and L0771:	I.	AR050: 47, AR051:	46, AR054: 39, AR089:	4, AR061: 2	H0046: 4
	Ala-22 to Tyr-27, Val-58 to Arg-75.	Ala-82 to Gly-88,	Pro-97 to Gln-102,	Arg-1 to Lvs-6.	Glu-8 to Ser-15,	Leu-17 to Leu-24,	Gln-26 to Gln-46,	Ala-58 to Gln-63,	Gln-68 to Leu-74,	Lys-82 to Arg-95,	Glu-101 to Pro-107,	Leu-139 to Lys-147,	Glu-176 to Leu-186,	Arg-208 to Ile-215.		Gln-42 to Gly-48.	Lys-6 to His-12,	Gly-20 to Gly-40,	Gly-55 to Glu-69.	Asn-9 to Gly-17.	Gly-6 to Asn-21.						
2915	2916			2917											2918	2919	2920			2921	2922	2923		2924			
283 - 510	275 - 643			430 - 1149									,		66 - 239	208 - 405	88 - 339			2 - 127	1 - 63	2 - 154		3 - 581			
228	229			230											231	232	233			234	235	236		237			
974351	795274			954104											523398	973697	973702	•		527929	505383	523372		947978			
HETFE48	HETFG29			HETFI24											HETFI81	HETFL39	HETFM43			HETGH30	HETGI40	HETGL62		HETGL74			

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H0046: 2 and L0519: 2.	H0046: 2	H0046: 2	H0046: 9		1		H0046: 4	H0046: 4	H0046: 1, H0032: 1	and L0740: 1.	H0046: 5	AR089: 1, AR061: 0	H0046: 2		1	H0046: 3	H0046: 3	H0046: 3	H0046: 14	•	H0046: 2	H0046: 2	H0046: 3	H0046: 2	H0046: 18	H0046: 5 and L0766:	1
	Pro-4 to Lys-11.		Arg-1 to Pro-7,	Pro-13 to Ser-18,	Ala-51 to Ser-64,	Asn-92 to Lys-97.					Ser-12 to Val-20.	Pro-1 to Arg-7,	Thr-18 to Thr-29,	Arg-35 to Ser-50,	His-87 to Cys-92.			Ser-3 to Pro-10.	Ala-60 to Lys-67,	Gln-71 to Gly-76.	Glu-7 to Glu-12.	Ile-3 to His-12.		Arg-16 to Asn-21.	Pro-49 to Thr-57.	Pro-14 to Pro-19,	Cys-35 to Ser-40.
2925	2926	2927	2928				2929	2930	2931		2932	2933				2934	2935	2936	2937		2938	2939	2940	2941	2942	2943	
7 - 567	23 - 190	11 - 109	151 - 441			-	101 - 259	490 - 639	90 - 428	-	475 - 660	24 - 461				302 - 439	47 - 223	262 - 411	1 - 363		1 - 135	81 - 245	458 - 646	62 - 166	252 - 503	3 - 215	
238	239	240	241				242	243	244		245	246				247	248	249	250		251	252	253	254	255	256	
927789	542486	969632	935175				974348	182134	745503		963592	851412				974555	966185	974359	766589		883991	764951	739804	935947	974558	909130	
HETGN20	HETGQ76	HETGS09	HETHD30				HETHES6	HETHH49	HETHO63		HETHO78	HETHR24				HETHT53	HETIF01	HETIG71	HETIJ84		HETIJ85	HETIQ89	HETIU60	HETIY84	HETJD30	HETJD86	

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AR061: 4, AR089: 2 H0046: 2 and H0616: 1.	L0375: 3, H0046: 2, L0774: 1 and L0789: 1.	H0046: 2	H0046: 2	H0046: 3	AR089: 4, AR061: 2	H0046: 1, H0032: 1,	H0040: 1 and L0565: 1.				H0046: 4 and L0774:	H0046: 3 and H0616:	1.		H0046: 11	H0046: 3	H0046: 2		•	H0046: 17		H0046: 3		
Val-10 to Asp-15.		Ser-1 to Thr-7.		Lys-8 to Thr-23.	Asp-11 to Val-21,	Pro-27 to Thr-43,	Trp-92 to Lys-97,	Pro-136 to Gly-149,	Met-182 to Val-193,	Thr-197 to Asn-203.		Val-50 to Arg-63,	Asp-75 to Trp-89,	Pro-92 to Arg-98.		,	Pro-1 to Gly-14,	Gly-17 to Ser-23,	Ser-25 to Arg-34.	Ser-12 to Arg-18,	Gln-69 to Met-74.	Leu-33 to His-38,	Pro-56 to Glu-61,	Pro-111 to Leu-117.
2944	2945	2946	2947	2948	2949						2950	2951			2952	2953	2954			2955		2956		
94 - 462	262 - 552	173 - 433	26 - 274	222 - 413	3 - 704		,	,			254 - 481	3 - 308			321 - 527	20 - 226	1 - 210			31 - 267		3 - 353		
257	258	259	260	261	797						263	264			265	266	267			268		269		
950017	806435	751072	767932	789310	927120						966194	894600			974355	915320	200610			974362		855449	-	
HETJG63	HETJI32	HETJK67	HETJN51	HETJT95	HETJX04						HETJY11	HETKA38			HETKG67	HETKH01	HETKH92		- 1	HETKM55		HETKQ65		

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AR061: 1, AR089: 0	H0046: 2	H0046: 2	H0046: 2	H0046: 6 and H0616:	1.	H0046: 2	H0046: 3			H0545: 2	H0545: 2	H0545: 2, L0766: 1,	L0775: 1, L0383: 1,	L0742: 1 and L0747: 1.	H0618: 6, L0758: 3,	H0484: 1, H0255: 1,	H0549: 1, H0253: 1,	H0616: 1, L0794: 1,	L0774: 1 and L0779: 1.	H0553: 2	H0553: 2, L0441: 1	and H0672: 1.	L0754: 20, L0748: 10,	L0749: 10, H0553: 8,	L0755: 8, H0031: 7,	H0644: 6, H0030: 2,	L0142: 1, L0771: 1,	L0759: 1 and H0008: 1.
Asp-12 to Trp-20.		Leu-22 to Arg-28.	Gln-1 to Glu-20.	Glu-1 to Gly-6,	Val-21 to Asp-27.	Cys-22 to Asp-27.	His-1 to Leu-8,	Lys-10 to Leu-17,	Met-44 to Cys-49.			Asp-53 to Gln-59,	Asp-122 to Leu-128.		Arg-11 to Ser-19.			,		Tyr-23 to Ser-30.	Asn-34 to Leu-40.		Ser-84 to Ile-92,	Glu-104 to Gly-111.				
2957		2958	2959	2960		2961	2962			2963	2964	2962			2966					2967	2968		2969					
2 - 664	1	150 - 254	3 - 620	518 - 1333		2 - 250	111 - 314			3 - 305	39 - 335	610 - 155	-		103 - 252					167 - 367	146 - 295		288 - 989					
270		271	272	273		274	275			276	277	278			279					280	281		282					
910030		789797	941045	920894		786458	974361			957079	919847	858254			675752					856552	958554		64386	_				
HETKV26		HETKX91	HETKZ65	HETLB04		HETLH89	HETLM46			HJMAE34	HJMAZ84	HJMBT23			HLMNG77 675752				\neg	-+	HLWAD08		HLWAG51					

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AR061: 2, AR089: 2 L0748: 6, L0752: 5, H0553: 2, L0754: 2, L0749: 1 and L0780: 1.		L0754: 2, H0553: 1, H0670: 1 and L0749: 1	H0553: 2	H0553: 1, H0435: 1 and L0748: 1.	H0553: 2, L0536: 2, L0754: 2 and H0030: 1	AR050: 21. AR054: 9		AR061: 1	H0553: 4 and L0759:	2.	•	,	H0553: 2, H0030: 1	and L0755: 1.		H0553: 2	H0553: 2	H0553: 2, L0005: 1,	L0143: 1, L0749: 1 and
Arg-9 to Val-17, Pro-25 to Gly-30.	Gly-1 to Ser-6, Phe-12 to Trp-25, Ala-31 to Gly-42, Met-44 to Gln-49.			Asn-12 to Ala-18, Gly-61 to Ser-70.		Gln-97 to Pro-114.	Trp-117 to Lys-129,	Thr-166 to Gln-173,	Ser-178 to Lys-183,	Glu-250 to Phe-256,	Ser-295 to His-301,	Tyr-307 to Gln-316, Gln-322 to Ser-330	Ser-20 to Gly-27,	Gln-29 to Arg-41,	Ser-46 to Pro-53.	Arg-112 to Ser-117.		Lys-28 to Arg-39.	
2970	5340	2971	2972	2973	2974	2975							2976			2977	2978	2979	
13 - 771	687 - 286	158 - 376	381 - 145	118 - 333	330 - 175	1287 - 292							430 - 2			4 - 390	192 - 350	1 - 192	
283	2653	284	285	286	287	288							289			290	291	292	
944774	948953	920690	746460	694216	715727	947484				•			723330			666273	962996	677944	
HLWAH41		HLWAI13	HLWAJ64	HLWAK69	HLWAK94	HLWAR77							HLWAR78			HLWAU18	I	HLWBA25	

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L0755: 1.	H0553: 2	H0030: 1 and H0553:	H0553: 2	H0553: 3	L0748: 14, H0553: 4,	L0754: 4, H0644: 3,	H0031: 2, L0005: 1,	L0774: 1, S0454: 1,	L0749: 1 and L0780: 1.	H0328: 2 and H0553:		AR089: 1, AR061: 0	H0553: 2	H0553: 3	H0328: 1 and H0553:	1.	H0553: 2	H0030: 1, H0553: 1 and L0754: 1.	H0031: 2, L0754: 2,	H0553: 1, L0743: 1,	L0748: 1 and L0747: 1.		
	Val-2 to Pro-8, Arg-21 to Trp-29,	Leu-6 to Gln-11, Arg-46 to Asp-52,	Glu-68 to Pro-/3. Ala-3 to Tro-10.		Arg-11 to His-20,	Pro-23 to Gly-31.				Gly-1 to Glu-6,	Val-8 to Tyr-16.	Lys-1 to Lys-41,	Pro-75 to Ser-86.	Met-36 to Lys-41.	Ala-37 to Glu-48.		Glu-57 to Gly-66.	Asn-7 to Cys-15.	Pro-26 to Ser-39,	lle-66 to Ser-78,	Lys-84 to Pro-105,	Pro-171 to Pro-181,	Arg-194 to Ala-199.
	2980	2981	2982	2983	2984					2985		2986		2987	2988		2989	2990	2991				
	1 - 150	252 - 1	90 - 380	78 - 224	847 - 1062		,	-		119 - 199		3 - 263		109 - 279	272 - 48		2 - 268	184 - 2	114 - 848				
	293	294	295	296	297			•		298		299		300	301	000	302	303	304			•	
	934562	791362	919639	711000	713600					529323		782938		703465	925300	10000	(/41/)	679215	577929				
	HLWBE31	HLWBE92	HLWBJ02	HLWBK40	HLWBN49					HLWB068	$\overline{}$	HLWBQ84		HLWBQ86	HLWBS14	THE WORLD	HLWBS43	HLWBZ74	HLWCA67				

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	116806,	168468	182280.	190182,	190182,	227646,	261510,	600163,	601154			, ,			,	,		•			<i>:</i>			1				
	3p24-p22	·			-		(·)		,			1															_	
H0553: 2	H0553: 2						-			H0553: 2			H0553: 2 and L0754:	1.	H0615: 3, H0553: 2,	L0756: 2 and L0758: 2.	H0553: 2, L0656: 1,	L0659: 1, L0666: 1,	L0664: 1 and L0748: 1.	H0553: 2		H0553: 2, H0038: 1,	L0764: 1, L0794: 1 and	L0438: 1.			H0553: 2	H0553: 2
Ala-17 to Thr-24.							-			Gln-16 to Met-21,	Val-25 to Lys-33,	Ala-40 to Arg-46.	Ser-11 to Gly-17.		Pro-10 to Lys-16.					Ile-31 to Ser-40,	Arg-115 to Gly-122.	Ser-21 to Glu-27,	Gln-50 to Pro-59,	Gln-61 to Ser-66,	Thr-68 to Pro-74,	Pro-77 to Gln-84.		Tyr-8 to Arg-14, Asn-40 to His-46,
2992	2993									2994			2995		2996		2997			2998		2999					3000	3001
57 - 314	207 - 329						1			71 - 208	ı		160 - 348	,	329 - 114		2 - 154			2 - 463		1 - 702					3 - 149	148 - 426
305	306									307			308		309		310			311		312					313	314
727699	926850			•						120119			002698	00000	/47//8		768018			913768		696062					953283	868276
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	H0553: 2	H0553: 2	AR054: 2, AR051: 1,		AR061: 0	H0651: 59, L0751: 5,	L0438: 4, L0774: 3,	L0439: 3, L0748: 2,	L0779: 2, L0752: 2,	L0755: 2, L0595: 2,	H0295: 1, H0009: 1,	T0010: 1, H0553: 1,	H0617: 1, H0163: 1,	H0102: 1, H0494: 1,	L0770: 1, L0662: 1,	L0375: 1, L0806: 1,	L0776: 1, L0657: 1,	L0659: 1, L0792: 1,	L0666: 1, L0663: 1,	L0664: 1, L0665: 1,	L0352: 1, H0648: 1,	L0740: 1, L0749: 1,	L0757: 1, L0361: 1,	L0603: 1 and S0042: 1.	H0553: 2		H0651: 29 and S0212:	1.	H0662: 2, H0670: 1,
Val-56 to Thr-62.	Pro-1 to Gly-12.	Thr-18 to Met-25.	Pro-4 to Pro-18,	Gly-81 to Pro-87,	Ala-110 to Ala-118,	Gln-127 to Gly-143,	Arg-168 to Asp-176.							٠				ı							Phe-20 to Gly-26,	Ser-30 to Ser-37.	Ser-37 to Ala-46,	Cys-77 to Ser-85.	
	3002	3003	3004																						3005		3006		3007
	- 15 - 1	2 - 157	1 - 558												,		_	_							1 - 402		2 - 289		3-512
	315	316	317											•			_								318		319		320
	759843	973315	929647																						826488		957804		914428
	HLWDL71	HLWEE76	HLWFG82																						HLWFQ04		HMVDU41		HNBTP01

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L0756: 1 and L0759: 1.					-		•		•	H0667.7	110002: 2			H0662: 2	H0662: 2	110000	H0002: 7		H0651: 177, L0794: 5,	.0766: 5, H0657: 3,	.0526: 2, L0666: 2,	0664.2 I 0744.2	JOSS 2, LU/44: 2,	.0759: 2, S0212: 1,	30360: 1, H0587: 1,	H0052: 1, H0050: 1.	10266: 1, H0428: 1.	H0551: 1, H0412: 1	0475: 1 H0646: 1	2047.3. 1, 110040. I,	.0761: 1, L0662: 1,	.0803: 1, L0805: 1,	.0809: 1, L0665: 1,	S0052: 1, S0374: 1,
										Pro-12 to Ser 24	Thr 42 to Ser 47	1111-42 to 361-47,	Pro-52 to Trp-59.			T 100 0 to A no. 14	Lys-6 to Asil-14,	Lys-48 to Asp-53.	ŧ		1	_) -	4				1	_ L		4.1			<u> </u>	03
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										965424				965428	933672	951814			958685															
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	H0648: 1, H0521: 1, H0648: 1, H0521: 1, L0786: 1, L0779: 1, L0777: 1, L0780: 1, L0755: 1, H0543: 1 and S0424: 1.	٠	AR054: 7, AR050: 1, 2q35	AR051: 0	H0678: 47, L0748: 12,	L0754: 7, L0747: 6,	L0755: 5, L0776: 4,	L0740: 4, L0749: 4,	L0759: 3, H0553: 2,	L0665: 2, L0779: 2,	S0282: 1, H0057: 1,	H0674: 1, H0616: 1,	H0646: 1, L0770: 1,	L0769: 1, L0646: 1,	L0765: 1, L0773: 1,	L0777: 1, L0731: 1 and	L0596: 1.	12,	L0754: 7, L0747: 6,	L0755: 5, L0776: 4,	L0740: 4, L0749: 4,	L0759: 3, H0553: 2,	L0665: 2, L0779: 2,	S0282: 1, H0057: 1,
		Ile-1 to Asp-7, Asn-39 to Pro-46.	Glu-15 to Asp-21,	His-32 to His-45,	Gly-55 to Lys-64,	Gly-81 to Ser-88.		<u> </u>			,				,		-	Glu-15 to Asp-21,	His-32 to His-45.		-			
	·	5341	3013									-						3014						
		81 - 284	340 - 696	•														320 - 520			•			
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193500, 201460, 205100, 237300, 262000, 600266,	118800, 123660, 125660, 125660, 193500, 193500, 193500, 201460, 205100, 262000, 600266,			
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H0674: 1, H0616: 1, H0646: 1, L0770: 1, L0769: 1, L0646: 1, L0765: 1, L0773: 1, L0777: 1, L0731: 1 and L0596: 1.	H0678: 2	H0618: 3, L0758: 3, L0794: 2, L0748: 2, L0779: 2, L0755: 2, L0731: 2, L0770: 1, H0651: 1 and L0603: 1.	H0651: 8, L0744: 2, L0598: 1 and L0756: 1.	H0651: 154, L0731: 9, L0777: 6, L0803: 4,
. ,		Asp-28 to Ala-37, Arg-49 to Gly-58, Ala-63 to Asn-69.	Pro-76 to Cys-88.	Ala-2 to Lys-10, Glu-70 to Gln-76.
	3015	3016	3017	3018
	771 - 1019	525 - 752	231 - 524	101 - 475
	328	329	330	331
	917725	933730	969363	927903
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L0775: 3. H0196: 2.	H0163: 2, L0662: 2,	L0805: 2, L0783: 2,	L0438: 2, L0740: 2,	L0759: 2, H0170: 1,	S0444: 1, H0592: 1,	H0632: 1, L0471: 1,	H0399: 1, H0615: 1,	H0040: 1, S0294: 1,	H0647: 1, L0598: 1,	L0763: 1, L0638: 1,	L0637: 1, L0642: 1,	L0374: 1, L0767: 1,	L0768: 1, L0794: 1,	L0804: 1, L0774: 1,	L0375: 1, L0776: 1,	L0606: 1, L0659: 1,	L0809: 1, L0647: 1,	L0789: 1, L0791: 1,	L0666: 1, L0663: 1,	L0664: 1, L0665: 1,	H0659: 1, H0658: 1,	H0672: 1, S0328: 1,	H0539: 1, S0380: 1,	L0439: 1, L0779: 1,	L0594: 1, L0361: 1,	S0026: 1, S0242: 1 and	S0460: 1.	H0651: 6	H0651: 3
																	-		t				•	1					Asn-18 to Lys-23.
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H0651-2	TYOCOLO	H0000: 2		H0660: 2	H0328-3	H0328: 2 and H0615:	2.	H0328: 2	H0328: 2 and L0534:	1.	H0328: 1 and H0615:	Troppe	H0328: 2	H0328: 2		L0777: 4, H0328: 2,	L0756: 2 and L0803: 1.	H0328: 2	H0328: 2		H0328: 2	H0328: 2	H0546: 1, H0328: 1,	L0779: 1 and L0361: 1.	H0328: 3		H0328: 2	H0328: 2
	Acm 0 to I am 20	Ser-25 to Glu-30,	Pro-57 to Asn-63.		Glv-42 to His-47.									Pro-10 to Cys-27,	OIII-41 W AIB-40.	. 1		Thr-3 to Lys-12.	Arg-15 to Thr-21,	351-38 to Gill-44.			Thr-6 to Asp-14.		Gly-2 to Arg-10,	Ile-27 to Pro-33.	Arg-27 to Trp-33.	Cys-14 to Pro-20.
3021	3022	7700		3023	3024	3025		3026	3027		3028	3020	2067	3030		3031		3032	3033	7,000	3034	3035	3036		3037		3038	3039
536 - 745	8-220			3 - 185	91 - 231	280 - 426		48 - 236	70 - 300		46 - 321	76-216	21.	108 - 311		147 - 398		3 - 161	21 - 158	000 30	005 - 50	227 - 328	142 - 297		166 - 303		158 - 331	18 - 116
334	335			336	337	338		339	340		341	342	!!	343		344		345	346	247	747	348	349		350		351	352
957833	922418			917484	973463	974043	011005	529410	859509	777100	921000	529405	10000	529404	00.000	9001/9	10,000	229401	529402	950510	21777	692684	775425		921662	064171	224101	921655
HNOCU05 957833	HOCMU03			HOCPJ03	HODAD73	HODAD95	TOPACOL	HUDAG3/	HODAH32	יטז א תסט	IOCAJOI	HODAJ35	UCTATION	noDAK38	TIONATIOE	HODAKSS	TO V COTT	_	HODAT56	HODAV80			HODAW84	+	HODBC01	הטטממטנו	\dashv	норвеот

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H0328: 2		H0328: 2	H0328: 2	H0328: 2	H0328: 1, H0059: 1	and L0596: 1.	H0328: 2	H0328: 2		H0328: 1 and H0038:		H0328: 2	H0328: 2	H0328: 2	H0328: 2 and L0749:	2.	H0328: 2		H0328: 2		H0328: 2	H0328: 2	H0328: 2	H0328: 2	H0328: 2		H0328: 2	H0328: 1 and H0615:
Glu-23 to His-30,	Leu-41 to Asp-53.	Lys-13 to Gln-21.	Ser-39 to Arg-45.	Glu-10 to Ala-17.	Ser-22 to Val-41.			Leu-20 to Arg-25,	Ser-47 to Gly-53.	Glu-35 to Ile-40,	Pro-73 to Gln-79.	Glu-1 to Thr-10.	Gln-44 to Thr-51.	Tyr-16 to Thr-22.		1	Gln-1 to Ser-7,	Arg-15 to Gly-21.	Lys-27 to Leu-32,	Asp-49 to Asp-56.				Leu-1 to Lys-14.	Pro-14 to Ile-20,	Pro-23 to Pro-28.	Arg-1 to Pro-12.	Gly-8 to Thr-22.
3040		3041	3042	3043	3044		3045	3046		3047		3048	3049	3050	3051		3052		3053		3054	3055	3056	3057	3058		3059	3060
3 - 299		1 - 168	2 - 166	59 - 280	71 - 343		1 - 180 -	2 - 184		2 - 286		1 - 123	20 - 175	39 - 242	1 - 222		87 - 275		1 - 168		2 - 196	162 - 335	3 - 185	122 - 325	127 - 234		15 - 203	313 - 477
353		354	355	356	357		358	359		360		361	362	363	364		365		366		367	368	369	370	371		372	373
927781		859559	678444	529329	761447		967732	529400		932218		529327	967320	932638	529334		829226		573202		573200	573195	507249	529332	954149		917270	920698
HODBH16		HODBO85	HODBT58	HODBU95	HODBV71		HODCA11	HODCA68		HODCD05		НОДСН64	HODCJ11	HODCJ42	HODCL88		HODCM62		НОДСО09		HODCO46	НОДСО82	HODCP69	\neg	HODCT07		HODCU01	HODCU02

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H0328: 2	H0328: 3	H0328: 2	H0328: 2	H0328: 2	H0328: 1 and H0615:	1.	H0328: 2				H0328: 2 and H0615:	1.	H0328: 2	H0328: 1, H0615: 1	and L0748: 1.	H0038: 2, H0328: 1	and H0616: 1.			H0328: 2	H0328: 1, H0615: 1	and L0748: 1.	H0328: 2	H0328: 1, H0615: 1	and L0758: 1.	H0615: 2 and H0328: 1.
Arg-5 to Cys-11.	Lys-7 to Glu-12.	Lys-37 to Ser-43.	Pro-49 to His-59.		Glu-21 to Glu-37.		Ala-8 to Ala-13,	lle-17 to Gln-26,	Phe-52 to Asn-64,	Asp-72 to Lys-77.	Gln-14 to Leu-22,	Lys-25 to Lys-35.			1	Val-26 to Lys-38,	Lys-47 to Lys-53,	Lys-60 to Leu-65,	Ser-80 to Ile-90.	Leu-16 to Arg-30.	-			Arg-10 to Arg-17,	Ser-24 to Lys-30.	
3061	3062	3063	3064	3065	3066		3067				3068		3069	3070		3071				3072	3073		3074	3075		3076
207 - 323	382 - 591	156 - 284	80 - 280	82 - 273	56 - 166	ļ	3 - 305				137 - 277		1 - 240	127 - 468		18 - 329				58 - 147	387 - 566		83 - 286	385 - 615		391 - 660
374	375	376	377	378	379		380				381		382	383		384				385	386		387	388		389
524314		960051	575256	859580	933726		529390				529169		937759	806204		742217	_			523270	780472		859516	859518		975437
HODCU62	HODCV09	HODCW17	HODCW37	HODCZ20	HODDDD20		HODDDD41				HODDE28	•	HODDF51	HODDG57		НОДДН55			\neg		HODDM25		HODDM78	HODDN40		HODDN59

																												
AR054: 28, AR050:	22, AR051: 13	H0328: 1, H0674: 1	and L0754: 1.	H0328: 2	H0615: 2 and H0328:	-		H0328: 2	H0328: 2	H0328: 2	H0328: 2	H0615: 3	H0615: 3	H0615: 2	H0615-3		H0615: 2	L0776: 2, L0740: 2,	H0484: 1, H0615: 1,	L0809: 1, L0748: 1,	L0750: 1, L0779: 1 and	L0752: 1.	H0615: 2	H0615: 3	H0615: 3	H0615: 2		H0615: 3
				•	Tyr-11 to Gln-16,	Ala-24 to Ala-32,	Pro-36 to Ser-41.			Gly-1 to Pro-7.	Leu-9 to Gln-20.				He-12 to Thr-20	Tyr-47 to Gly-57.	Thr-34 to Ser-40.	Gln-3 to Arg-14,	Pro-30 to Thr-36.			-	1			Pro-3 to Thr-10,	Ser-38 to Pro-47.	
3077				3078	3079			3080	3081	3082	3083	3084	3085	3086	3087	•	3088	3089					3090	3091	3092	3093		3094
60 - 371	1			101 - 283	3 - 359			48 - 152	171 - 338	1 - 357	126 - 275	391 - 534	1 - 282	350 - 514	42 - 218		24 - 296	23 - 421					235 - 480	27 - 266	373 - 648	2 - 142		101 - 295
390				391	392			393	394	395	396	397	398	399	400		401	402					403	404	405	406		407
891236				920962	919295			529640	567197	529290	531209	782242	927022	952204	580996		859368	912909					963494	974342	784833	963895		974329
HODDN93				НОДДОО2	НОДДОСТ			HODDR13	HODDS67	норри70	HODDX35	HODEA90	HODEB04	HODEC76	HODED11		HODED55	HODED87						HODEF87	HODEG86	НОБЕН08	\neg	HODEH22

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H0615: 3		H0615: 3	H0615: 3	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 3	H0615: 2	AR061: 4, AR089: 2	H0651: 709, L0766: 5,	L0754: 5, L0756: 3,	L0803: 2, L0779: 2,	L0777: 2, L0759: 2,	S0354: 1, H0643: 1,	H0013: 1, H0194: 1,	H0545: 1, H0373: 1,	H0252: 1, H0615: 1,	H0316: 1, H0040: 1,	H0641: 1, H0647: 1,	S0422: 1, L0598: 1,	L0369: 1, L0520: 1,	L0762: 1, L0649: 1,	L0804: 1, L0527: 1,	L0656: 1, H0144: 1,	H0702: 1, H0547: 1,
Ile-9 to Cys-14,	Pro-22 to Gly-27.	Lys-1 to Ser-10.	Ser-25 to Pro-30, Pro-84 to Gln-92			Val-9 to Val-15.				Thr-1 to Ser-13.		Phe-28 to Thr-33,	Ile-44 to Thr-54,	Arg-78 to Lys-88,	Gln-99 to Lys-106.		I					ı						
3095		3096	3097	3098	3099	3100	3101	3102	3103	3104	3105	3106																
66 - 227	1	511 - 633	363 - 740	45 - 188	312 - 458	1 - 159	69 - 69	115 - 381	215 - 364	206 - 331	246 - 479	1-351		1														
408		409	410	411	412	413	414	415	416	417	418	419																
859318		841906	859307	859313	772940	930735	926984	965534	784846	972808	859287	789661																
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H0555: 1, H0436: 1, S0028: 1, L0746: 1, L0750: 1, L0780: 1, L0753: 1 and 10686: 1	L0753: 3, H0615: 1	H0615.2	H0615: 2	AR061: 6, AR089: 3	H0615: 5	H0615: 2	H0615: 2		H0615: 2	H0615: 2	H0615: 2 and H0328	1.	H0615: 2	H0615: 3 and L0367:	-1	110/10	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615.2	H0615: 2	
		Val-36 to Glv-42	Asn-37 to Lys-42.	Met-1 to Arg-6,	Ser-16 to Lys-29.	Pro-19 to Gly-45.	Glu-1 to Lys-7,	Thr-34 to Asn-43.		Gln-36 to Gly-41.	Leu-27 to Ile-33.	Trp-43 to Gln-48.		Ser-9 to Gly-15,	Pro-22 to Lys-27,	Oid-45 to Gid-50;		Inr-1 to Ser-16.		APPRILATE TO THE PARTY OF THE P			Arg-46 to Ser-57,	Thr-67 to Cys-78.
	3107	3108	3109	3110		3111	3112		3113	3114	3115		3116	3117		2110	2110	3119	3120	3121	3122	3123	3124	
	3 - 278	27 - 191	433 - 639	22 - 159		129 - 524	425 - 667		179 - 382	432 - 677	37 - 207		178 - 336	170 - 397		151 630	7 717	/17-7	449 - 634	133 - 270	325 - 465	169 - 399	2 - 301	
	420	421	422	423		424	425		426	427	428		429	430		431	422	70,	433	. 434	435	436	437	
	784815	922988	859302	926260		922473	972984		859323	859296	918672		952166	934266		979733	070810	0107/2	6/676/	958371	963516	780531	829338	
	HODES86	HODET03	HODEV13	HODEX10		HODEX31	HODEY08		HODEY13	HODEY80	HODEZ02		HODEZ11	HODFA38		HODFR05	HODEBS7	-	\neg	_	HODFD10	HODFD45	HODFE69	

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H0615: 2	H0615: 3	H0615: 2	H0328: 1 and H0615:	H0615: 5 and L0665:	H0615: 3	H0615: 2	H0615: 2	H0328: 1 and H0615:	H0615: 3 and H0328:	110016.0	H0615: 2	H0328: 1, H0615: 1, L0775: 1, H0648: 1 and	L0758: 1.	H0615: 3		H0615: 2	H0615: 2	H0615: 2	H0615: 3	H0615: 2 and L0558:	1.	
	Gln-15 to Ser-23, Gly-30 to Lys-36.	Lys-32 to Ser-37.		Ala-14 to Ser-38.	Ser-7 to Lys-15, Val-17 to Pro-29.	Pro-45 to Cys-51.			Asp-1 to Asp-7.	T 11 +- int 51	11p-44 to 1nr-54.	Tyr-4 to Thr-11, Thr-15 to Asp-20,	Arg-29 to Leu-42.	Tyr-1 to Cys-14,	GIn-20 to 11e-47.	Thr-1 to Asn-6.			Thr-1 to Ser-6.	Glu-1 to His-6,	Phe-13 to Pro-23,	Arg-29 to Leu-34,
3125	3126	3127	3128	3129	3130	3131	3132	3133	3134	2126	2133	3136		3137		3138	3139	3140	3141	3142		
263 - 433	33 - 164	143 - 391	247 - 501	44 - 343	42 - 182	1 - 159	198 - 425	79 - 318	124 - 309	96 306	000 - 00	587 - 817		427 - 615		258 - 401	224 - 51	204 - 398	460 - 588	274 - 582		
438	439	440	441	442	443	444	445	446	447	448	0	449		450		451	452	453	454	455		
782219	915257	783783	859549	974313	974318	918456	859334	921529	859329	850314	177770	921651		918637		934304	915232	918536	934229	806232		
HODFG37	НОБЕНО	HODFH76	HODFJ01	HODFK18	HODFK94	HODFL91	HODFN19	HODFN42	НОБГО03	HODEO37	CO TOOL	HODFP40		НОБРО02	200000	норьою	HODFT52	HODFU02	HODFU06	HODFU47		

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	-	H0615: 2	H0615: 2	H0615: 3	AR061: 6, AR089: 3	H0615: 2 and L0766:	-	H0615: 3	H0615: 2 and H0169:	1.	H0615: 2	AR061: 8, AR089: 5	H0615: 3	H0615: 2	•	H0615: 2	1	H0615: 2		H0615: 2	H0615: 2	H0328: 1 and H0615:		H0615: 2	H0615: 3			
Pro-54 to Asp-60,	Pro-62 to Gly-67.										Glu-9 to Gln-21.	Thr-50 to Gln-57.		Ala-8 to Gln-29,	Ser-36 to Gly-44.	His-8 to Gly-18,	Leu-37 to Lys-42.	His-8 to Gly-18,	Gly-26 to Arg-33.		1	Arg-30 to Asn-35.		Arg-11 to Thr-29.	Ser-2 to Thr-13,	Ile-16 to Ser-26,	Pro-28 to Gln-36,	Gln-41 to Pro-47.
		3143	3144	3145	3146			3147	3148		3149	3150		3151		3152		3153		3154	3155	3156		3157	3158			
		60 - 134	370 - 603	1 - 183	163 - 309		,	393 - 259	45 - 209		83 - 214	43 - 324		1 - 147		28 - 285		10 - 159		178 - 330	383 - 556	91 - 333		1 - 267	3 - 353			
		456	457	458	459			460	461		462	463		464		465		466		467	468	469		470	471			
		965526	859322	975259	958329			975253	965104		926863	973449		931071		917969		926255		951933	965105	968794		958235	974297			
		HODFU54	HODFW17	HODFX57	HODFY16			HODFY79	HODFZ11		HODGC04	HODGC61		HODGD05		HODGH02		HODGH04		HODGH07	HODGH11	НОДСН91		HODGI08	HODGJ67		,	

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H0615: 4 and H0328:	H0615: 3	H0615: 2	H0615: 3	H0615: 2	AR089: 8, AR061: 3	H0615: 2	H0615: 2	H0615: 3	H0615: 3		,		AR061: 5, AR089: 2	H0615: 2	H0615: 3	H0615: 2	H0615: 3	H0615: 2 and H0658:		H0615: 2	H0615: 2	H0615: 2 and L0777:	1.	H0615: 3 and H0328:	H0615: 2	1
Pro-25 to Ser-31.	Phe-81 to Phe-87.				Lys-38 to Arg-44,	Thr-84 to Asp-99.			Val-1 to Lys-7,	Gln-12 to Arg-18,	Arg-22 to Gln-30,	Gly-32 to Glu-40.	Asp-42 to Arg-47,	Gln-84 to Gly-91.		Ala-11 to Cys-16.						Pro-59 to Pro-65,	Glu-96 to Phe-113.	Ala-1 to Glu-12.	Asp-1 to Lys-20.	Cys-34 to Ser-42.
3159	3160	3161	3162	3163	3164		3165	3166	3167	,			3168		3169	3170	3171	3172		3173	3174	3175		3176	3177	
402 - 698	2 - 304	292 - 525	67 - 228	3 - 236	23 - 358		261 - 377	117 - 245	175 - 405				2 - 274	_	253 - 402	183 - 371	206 - 310	138 - 257		315 - 479	3 - 119	3 - 341		132 - 278	190 - 384	
472	473	474	475	476	477		478	479	480				481		482	483	484	485		486	487	488		489	490	
859303	974051	883087	974293	889967	908650		958237	974290	974294				894368		974052	958277	963427	913879	2000	933783	961977	922987		974924	926203	
HODGL54 859303	HODGM46 974051	HODG046	HODGP37	HODGP83	HODGP95		HODGO08	HODGQ22	HODGQ32	-			НОБСО92	27 20 2022	HODGI62	HODGW08	HODGX10	HODGX29				норнс03	\neg	HODHD16	НОДНС71	

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H0328: 1 and H0615:	H0328: 1 and H0615:	H0615: 2 and H0328:	H0615: 3	H0615: 3	H0615: 2, H0188: 1	and L0758: 1.	H0615: 2	H0615: 2	H0615: 2	H0615: 3	H0615: 3	H0615: 2	H0615: 2 and L0060:		H0415: 1 and H0414:	H0415: 2 and H0414:	H0414: 2	H0415: 1 and H0414:	-	H0414: 2		H0415: 1 and H0414:	
Thr-14 to Arg-22, 11e-25 to Ser-35.	Glu-33 to Lys-46.					B	-				Lys-30 to Arg-36.	Lys-8 to Ser-14.	His-20 to Val-35.		Ile-13 to Arg-20.	-		Pro-1 to Arg-8,	Pro-39 to Glu-56.		Arg-38 to Cys-49.		Arg-36 to Pro-42,
3178	3179	3180	3181	3182	3183		3184	3185	3186	3187	3188	3189	3190		. 3191	3192	3193	3194		3195		3196	
78 - 293	376 - 636	275 - 451	108 - 302	79 - 315	185 - 415		36 - 137	285 - 461	47 - 214	134 - 379	31 - 384	41 - 169	92 - 256		71 - 385	527 - 99	100 - 249	118 - 306		2 - 220		3 - 293	
491	492	493	494	495	496		497	498	499	200	501	502	503		504	505	506	507		208		209	
964935	952195	973423	918613	973433	847724		965529	965460	914554	922484	951404	965049	933320		659522	964113	573337	932211		772992		707359	
НООНН82	HODHI07	норнг26	НОДНК02	HODHL19	HODHL56		НОДНО11	HODHS34	HODHY53	HODJR03	HODJY33	HODJZ90	HODKN07		HOFAA15	HOFAB40	HOFAB71	HOFAD05		HOFAE31	_	HOFAE61	

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						1.0			,		'	13q11-q12						1q42		ı							
	H0414: 2	H0415: 2	AR089: 26, AR061: 10	H0415: 8 and H0414:	H0415: 2		H0415: 2	H0415: 2	H0415: 2			H0415: 2			,	•		, AR061: 3	H0415: 3	,							H0415: 3 and H0414: l.
Arg-57 to Cys-62.	Gly-30 to Gly-46.	Ser-2 to Arg-15.	Arg-10 to Lys-23.		Thr-7 to Gly-18,	Pro-20 to Gly-26.			Lys-36 to Ala-52,	Thr-54 to His-61,	Pro-90 to Thr-96.	Pro-31 to Arg-36,	Glu-41 to Gln-52.					Pro-1 to Pro-6,	Asp-41 to Arg-67,	Gly-100 to Val-106.	,			•			Arg-1 to Cys-16, Tyr-59 to Lys-68,
	3197	3198	3199		3200		3201	3202	3203			3204						3205									3206
	136 - 273	63 - 347	1 - 399		3 - 158		232 - 405	55 - 264	3 - 446			1 - 387					10,	66 - 497									2-4/8
	510	511	512		513		514	515	516			517						218									519
	868887	782275	572941		572839	0,000	916959	867993	624679			734917					01000	9/3338								000000	704/27
	HOFAF84	HOFMA24	HOFMB78		HOFMB83	TIOTI	HOFMD13	HOFME41	HOFMF03			HOFMF70						HOFMG21								UOENTITO	nOrma12 904/22

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	AR089: 5, AR061: 3 H0415: 1 and H0414:	H0415: 3	H0415: 2	H0415: 8 and H0414:	H0415: 2	AR089: 30, AR061: 10 H0415: 1 and H0414: 1.	H0415: 2	H0415: 5 and H0414:	H0415: 2	H0415: 2	H0415: 2		AR089: 11, AR061: 3 H0415: 2
Glu-76 to Arg-82.	Ser-85 to Gly-100, Pro-102 to Ser-113.	Val-15 to Ala-22, Val-26 to Gly-38, Gln-65 to Glv-70.	Cys-2 to Gly-7, Ala-14 to Pro-20.	Asp-1 to Gly-22, Pro-24 to Gly-34.	Ala-4 to Gly-11, Pro-26 to Trp-31.		Asp-22 to Val-42, Phe-50 to Tyr-55, Leu-65 to Gln-70.	Ala-5 to Trp-19.			Gly-1 to Pro-6, Pro-23 to Asp-28,	Pro-36 to Ser-46, Lys-54 to Asn-63.	
	3207	3208	3209	3210	3211	3212	3213	3214	3215	3216	3217		3218
	3 - 413	2-211	2 - 121	3 - 452	1 - 225	2 - 301	3 - 359	1 - 132	49 - 366	422 - 234	2 - 202		2 - 445
	520	521	522	523	524	525	526	527	528	529	530		531
	920365	973359	609722	796358	745133	719663	675122	973349	464015	514556	260869		775242
	НОҒМН38	ноғмн95	HOFMI01	HOFMI62	HOFMI63	HOFMJ44	HOFMK22	HOFMM27	HOFMM72	HOFMIN30	HOFMP31		ноғмр79

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		H0415: 1 and H0414:			4	2			2	H0415: 1 and H0435:				2			2		2			3			2	-	H0415: 1 and H0414:		
		H0415:		-	H0415: 4	H0415: 2			H0415: 2	H0415:	<u>.;</u>			H0415: 2			H0415: 2		H0415: 2						H0415: 2		H0415: 1	1.	H0415: 2
Glu-79 to Lys-89,	Glu-96 to Leu-105.	Gly-11 to Leu-19,	Val-23 to Gly-32,	His-34 to Ser-45.		Gly-1 to Ser-13,	Arg-26 to Glu-35,	Gly-38 to Met-48.		Thr-4 to Gly-9,	Leu-32 to Glu-42,	Pro-54 to Cys-68,	Ile-97 to Gly-113.	Arg-34 to Thr-44,	Pro-65 to Gly-79,	Leu-98 to Ser-105.	Asn-20 to Cys-29,	Val-33 to Ser-40.	Val-6 to Arg-12,	Pro-19 to Thr-36,	Ser-49 to Thr-54,	Glu-61 to Trp-67,	Pro-77 to Ala-84,	Ser-104 to Asn-114.	Arg-1 to Asn-8,	Lys-20 to Gly-38.	Gly-2 to Gly-9.	A 1 4- 01- 00	Arg-1 to Gly-20,
		3219			3220	3221			3222	3223				3224			3225		3226						3227		3228	2220	3776
	1	34 - 318			183 - 449	2 - 280			187 - 348	340 - 2				2 - 502	f		2 - 157		1 - 411						2 - 169		3 - 248	7 373	6-2/2
		532			533	534			535	536		•		537			538		539						540		541	543	246
		823439			906933	789347			464075	514568				575820			669738		811542						754251		563575	707/07	102472
		HOFMQ04			HOFMQ31	HOFMQ65			HOFMS68	HOFMS74				HOFMS89			HOFMT20		HOFMT43						HOFMT66		HOFMT72	HOEMIT	_

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	H0415: 2	H0415: 2	H0415: 2			H0415: 2		H0415: 2	H0415: 2	H0415: 2	H0415: 2	H0415.2	A DOCT.	AR050: 2	H0415: 2						H0415: 2					H0415: 2	H0415: 2	H0415: 2
Pro-45 to Ser-50.	His-8 to Trp-19.		Lys-10 to Trp-15,	Pro-47 to Ser-55,	Pro-67 to Phe-76.	Glu-19 to Gln-24,	Thr-30 to Lys-38.	Arg-1 to Gly-12.	Tyr-1 to Pro-12.		Pro-80 to Trp-88.			<u> </u>		Ala-5 to Ala-13,	Pro-15 to Lys-23,	Ala-39 to Cys-44,	Pro-47 to Cys-74,	Ala-83 to Gly-90.		٠,	Gln-44 to Gly-54,	Ser-61 to Val-89,	Ser-92 to Ser-98.	Thr-30 to Tyr-39.	<u> </u>	Thr-18 to Trp-23.
	3230	3231	3232			3233		3234	3235	3236	3237	3238	3230)		5342		-		_	3240					3241	3242	3243
	1 - 243	2 - 121	3 - 230			209 - 373		95 - 343	203 - 3	3 - 122	54 - 341	446 - 90	407 - 174		•	2 - 325					2 - 388		,			67 - 225	140 - 280	1 - 207
	543	544	545			546		547	548	549	550	551	552	 		2655					553					554	555	556
	744325	713809	829109			615287		792734	973354	658476	867984	727285	727173			888450					716670					717067	859106	935569
	HOFMU63	_	HOFMV84			HOFNA04		HOFNA92	HOFNC63			HOFND50	HOFND52								HOFND90				一	. 1	\neg	HOFNG06

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H0415: 2	H0415: 4	H0415: 2		H0415: 3	AR089: 9, AR061: 3	H0415: 1 and H0414:	1.	AR089: 8, AR061: 7	H0415: 3	H0415: 6, H0414: 2,	H0046: 1 and H0271: 1.			H0415: 2	H0415: 2	H0415: 2	H0415: 2	1				H0415: 2				-			
Asp-14 to Gly-20, Arg-45 to Ala-50.		Pro-2 to Gly-13,	Gly-59 to Ser-64.	Gly-36 to Tyr-50.	Ser-26 to Pro-33.	•		Lys-54 to Ser-60,	Tyr-86 to His-93.	Gly-1 to Pro-6,	Thr-24 to Ala-30,	Ser-33 to Pro-41,	Ser-51 to Ser-61.		Gln-1 to Pro-8.		Pro-7 to Ser-12.	Glu-37 to Ser-42,	Leu-45 to Gly-53,	Leu-68 to Val-75,	Ser-81 to Thr-86.								
3244	3245	3246		3247	3248			3249		3250				3251	3252	3253	3254					3255							
3 - 152	1 - 426	140 - 376		117 - 362	1 - 405	1		41 - 346		2 - 394 -				1 - 225	244 - 414	2 - 340	109 - 405					1 - 216				•	•		7
557	558	529		260	561			295		263				564	565	995	267					268	_	•					
715101	974435	708727		717355	666498		333,3	916963		906250							615305				1	/05435							
HOFNH33	HOFNI08	HOFNI48		HOFN182	HOFNL18		TOTAL	HOFNL25		HOFNL37				HOFNL40	HOFNL92	HOFNM85	HOFNT59				Sec. II CAL	HOFNU/2							7

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141900,	141900,	142000,	142000,	142200,	142250,	142270,	176730,	176730,	176730,	190020,	191290,	192500,	192500,	194071,	194071,	204500,	600856,	601680,	602631,	602631								
							1.4				•	,			,													
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						-											i .				Lys-1 to Ser-14.		_	•	Pro-15 to Pro-25,	Lys-68 to Glu-76,	Ser-18 to Ser-34.	Gly-1 to Pro-6.
																					3256	3257		3258	3259		3260	3261
	<u>.</u>						١				,										28 - 237	9 - 365		217 - 495	68 - 430		98 - 379	2 - 268
								,												3,5	369	220		571	572		573	574
																			-	1000	916288	973351		920218	715312		660317	859104
																						HOFNW79		HOFNY02	HOFNY50		HOFNZ15	HOFNZ16

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H0415: 2	H0415: 2	H0415: 1 and H0414:	H0415: 2	H0415: 2						H0415: 2	H0415: 2			H0415: 2	H0415: 2		H0435: 1 and S0152: 1.		H0615: 1 and H0435:	U0663.7 10761.1	110005. 2, LO/01: 1, L0771: 1 and H0435: 1				H0435: 2 and L0592:
Arg-1 to Gly-6.			Gly-34 to Glu-39.	Thr-2 to Val-11,	Leu-18 to Gly-25,	Pro-30 to Ser-35,	Ala-40 to Pro-47,	Lys-62 to Glu-70,	Lys-76 to Arg-82.		Thr-1 to Ser-11,	Ser-23 to His-29,	Gly-53 to Gln-67.		Asn-1 to Gln-9,	Pro-17 to Ala-30.	Asp-1 to Leu-22,	Val-26 to Trp-38.	Cys-10 to Asp-19.	Pro-8 to I ve-15	Arg-67 to Arg-74,	Arg-76 to Gly-85,	Glu-91 to Gly-97,	Inr-113 to Phe-120.	Lys-1 to Val-7.
3262	3263	3264	3265	3266						3267	3268			3269	3270		3271		3272	3773					3274
109 - 456	29 - 229	99 - 218	142 - 369	1 - 501						1 - 234	173 - 382		1	3 - 419	78 - 431		3 - 269		247 - 402	211 - 576				611	204 - 443
575	576	217	578	625				,		280	581			582	583		584		585	586				202	78/
677372	683473	794308	935553	751692						827631	924473			606999	739399		947431		954011	926098	•			000323	676616
HOFNZ21	HOFNZ58	HOFNZ94	HOFOA17	HOFOB88						HOFOB91	HOFOE94		Т	\neg	HOFOF84	_	HOGAF39		HOGAU90	HOGAV36				UCDE70	_

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-	H0165: 1, H0435: 1 and L0747: 1.	H0435: 2	H0040: 1 and H0435:				H0038: 2, L0758: 2,	H0253: 1, H0616: 1,	H0435: 1 and L0777: 1.	H0435: 2	H0435: 1 and H0670:		*	H0648: 2, L0367: 1,	H0651: 1, L0748: 1 and	L0754: 1.	H0428: 2	H0428: 2	H0428: 2 and L0588:	1.	H0428: 2	H0428: 2		L0754: 2, H0428: 1	L0777: 6, L0758: 5,
	Pro-12 to Ala-17, Val-29 to Gly-36.	Pro-3 to Lys-13, Thr-39 to Ile-45.	Arg-1 to Glu-14,	Thr-39 to Gln-45,	Pro-52 to Lys-62,	Glu-89 to Thr-94.					Asp-25 to Ser-34,	Tyr-39 to Gln-44,	Leu-84 to Lys-90.	,		1					•	Ser-22 to Arg-35,	Lys-39 to Gly-44.	Arg-15 to Gln-21.	Lys-21 to Gly-26.
	3275	3276	3277				3278			3279	3280			3281			3282	3283	3284		3285	3286		3287	3288
	381 - 193	3 - 137	2 - 364				22 - 660			732 - 298	1 - 285			418 - 621			215 - 358	55 - 183	2 - 298		3 - 107	64 - 243		89 - 238	515 - 763
	588	589	290				591			592	593			594			595	596	297		598	599		009	601
	950216	575931	717068				209068			986896	961587			965013			576627	757294	927320		620063	723671		990022	964671
	HOGCQ05	HOGCR32	HOGCT45				HOGCX95			HOGEE76	HOGEU49			НООЛО59			HOVAF17	HOVAF71	HOVAG49		HOVAI41	HOVAM50 723671		HOVAO76	HOVBQ10

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L0747: 2, H0428: 1, L0770: 1, L0768: 1, L0533: 1, H0666: 1, L0750: 1 and L0755: 1.	H0428: 2	AR051: 44, AR050: 43, AR054: 30 H0428: 2	H0428: 2	H0428: 2	H0428: 3	H0428: 2	H0428: 2		H0674: 2, H0549: 1	and H0428: 1.		H0428: 2 and L0770:		•						H0428: 2	L0758: 3, H0428: 2, L0794: 2, L0764: 1,
	Gly-1 to Ala-8, Glu-67 to His-74.			Ser-8 to Leu-16.	Arg-13 to Gly-18, Gln-44 to Ser-50.	Lys-7 to Ser-16.	Leu-16 to His-22,	Cys-50 to Pro-55.	Ser-1 to Lys-14,	Gln-48 to Asn-63,	Glu-70 to Pro-88.	Val-11 to Leu-18.	,								
	3289	3290	3291	3292	3293	3294	3295		3296			3297								3298	3299
	2 - 295	3 - 215	232 - 354	25 - 192	60 - 284	119 - 241	68 - 319		219 - 482			157 - 423					_			283 - 420	1 - 213
·	602	603	604	605	909	209	809		609			019		-						611	612
	706816	888442	727170	705406	858845	713792	858844		674177			970814							270700	/36065	496190
	HOVBY34	HOVBZ26	HOVCA52	HOVCD39	HOVCI76	HOVCI77	HOVCJ24		HOVCM22			HOVCOII							0.0011011	- 1	НОУСО47

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L0803: 1 and L0593: 1.	L0769: 4, L0758: 3, L0717: 2, H0428: 2, L0794: 2, L0731: 2, L0591: 2, L0776: 1,	H0428: 1 and H0032:	AR089: 10, AR061: 4 H0038: 4 H0616: 3	L0747: 3, L0758: 3,	L0663: 2, H0369: 1,	H0428: 1, L0769: 1,	L0542: 1, L0809: 1,	L0666: 1, L0665: 1,	L0743: 1, L0777: 1,	L0731: 1 and S0456: 1.	H0428: 2 and H0546:	1.	H0688: 3	S0146: 2	H0658: 1, S0146: 1 and	S0146: 2						
	Ser-25 to Gly-45.	Thr-11 to Pro-21.	Met-10 to Gly-18.			·									,						٠	
	3300	3301	3302								3303	7000	3304	3305	3306	3307		*				
	81 - 320	131 - 3	.3 - 395		,						128 - 307	200 25	3/ - 225	57 - 155	96 - 230	2 - 355						
	613	614	615								616	613	01/	618	619	.620						
	926219	669896	909138								959234	061467	70140/	573829	698320	574952						
	HOVDY04	HOVEE58	HOVEK70	-							HOVEV36	HOWATA 10	HOVJAIU	HPCAB21	HPCAB31	HPCAE18						

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251170, 276710, 600175,	/10100																							
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,	S0146: 2	S0146: 2. H0046: 1.	S0148: 1, L0439: 1 and	L0745: 1.	S0146: 2	S0146: 2	H0615: 1, H0658: 1	and S0146: 1.	H0031: 1 and S0146: 1	S0146: 2	S0146: 2.	S0146: 2	S0146: 2	S0146: 2	H0659: 2	H0659: 2	H0606: 1, L0803: 1	and H0659: 1.	H0549: 1, L0773: 1,	L0768: 1, L0794: 1,	L0803: 1, H0658: 1 and	L0747: 1.	H0658: 2	H0046: 17, H0658: 1
						Lys-1 to Gln-6, Met-15 to Thr-29.				Gly-24 to Ser-34.	Asn-12 to Ile-18.	Asp-26 to Phe-39.				Gly-29 to Tyr-34.		Lys-55 to Leu-71.	,					Arg-7 to Tyr-14.
	3308	3309			3310	3311	3312		3313	3314	3315	3316	3317	3318	3319	3320	3321		3322				3323	3324
1	192 - 314	488 - 637			134 - 259	58 - 168	455 - 634		265 - 420	41 - 142	1117	64 - 237	91 - 210	181 - 315	88 - 249	3 - 128	3-371		1 - 384				22 - 201	92 - 436
	621	622			623	624	625		626	627	628	629	630	631	632	633	634		635				636	637
	573395	923808			655535	655536	662121		734931	655723	924709	655607	655742	655732	927168	921826	927135		922481				929318	966158
	HPCAH18	HPCAH88			HPCA121	HPCAI68	HPCAK16		HPCAK57	HPCAL60	HPCAL86	HPCAM22	HPCAN59	HPCA004	HPCPF05	HPCPO07	HPCQY57		HPDOT03				HPDOY06	HPDPJ69

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and H0672: 1.	H0658: 2	L0520: 2, L0770: 2,	H0658: 2, L0659: 1 and	L0759: 1.	L0749: 3, H0658: 2	and H0660: 1.	H0658: 2, L0745: 2,	H0644: 1 and L0529: 1.	H0658: 2	L0748: 3, H0658: 2	and L0741: 1.	L0021: 1, H0658: 1	and H0672: 1.	H0644: 2 and H0658:	1.	L0512: 5, L0513: 4,	H0686: 3, L0509: 3,	L0789: 3, L0761: 2,	L0772: 2, L0764: 2,	L0717: 1, L0800: 1,	L0378: 1, L0776: 1,	L0659: 1, H0658: 1 and	L0747: 1.	H0046: 2, L0794: 1,	L0766: 1, H0658: 1,	L0748: 1 and L0758: 1.	L0374: 1, L0804: 1,	L0805: 1, H0658: 1,	H0648: 1, L0750: 1 and
		Ile-10 to Asn-36.			Ala-13 to His-22,	Leu-80 to Arg-86.				Pro-51 to Phe-57,	Ser-87 to Thr-94.			Arg-5 to Cys-10,	Ser-22 to Ile-28.	Pro-22 to Asn-33,	Arg-103 to Val-108.	1											
	3325	3326			3327		3328		3329	3330		3331		3332		3333								3334			3335		
	155 - 316	2 - 223			588 - 875		306 - 449		308 - 511	1 - 291		2 - 163		342 - 554	_	430 - 765								524 - 847			97 - 243		
	638	639			640		641		642	643		644		645		949			-					647			648		
	969340	922464			929274		914437		957791	967704		82926		951634		928647								922193			268977		
	HPDPK12	HPDPQ40			HPDQ005		HPDRB01		HPDRD28	HPDRG92		HPDRO20		HPDVB07		HPDVE05						-		HPDVF03			HPDVK12		

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						,								6p21.1-p21.3
L0755: 1.	L0779: 2, H0032: 1 and H0658: 1.	H0658: 2	H0165: 2	H0166: 1, H0059: 1	and L0768: 1.	H0166: 2 and L0598: 1.	H0166: 2 and L0604: 1.	H0166: 1, H0673: 1, L0763: 1 and L0581: 1.	H0673: 2	H0673: 2	H0328: 1 and H0673: 1.	L0779: 2, H0428: 1, H0673: 1, L0766: 1 and L0658: 1.	H0168: 1 and H0169: 1.	H0169: 2
	His-19 to Tyr-34, Glu-39 to Pro-47.	Gln-1 to Thr-6, Ser-22 to Leu-27, Ser-32 to Phe-37			Ala-27 to Phe-34, Ser-46 to Thr-60.	Ile-18 to Asn-25.		Glu-31 to Cys-39.	1			Gly-1 to Asn-8, Pro-22 to Ser-31, Thr-41 to Lys-48.		Ser-12 to Ser-17, Lys-24 to Ser-34.
	3336	3337	3338	3339		3340	3341	3342	3343	3344	3345	3346	3347	3348
	439 - 591	226 - 444	3 - 224	253 - 2-		61 - 255	3 - 200	284 - 406	1 - 96	57 - 131	220 - 408	2-217	283 - 426	40 - 288
	649	650	651	652		653	654	655	929	657	658	629	099	661
	933443	955902	867892	208096		723298	092559	716911	914115	1627361	921663	969251	960801	524720
	HPDVM06	HPDVY17	HPEAF19	HPEBA06		HPEBA51	нреврзі	HPEBE44	HPEKG18	HPEKJ42	HPEKU27	HPEKX12	HPFAA06	HPFCA36

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	H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2		H0169: 2	H0169: 2	H0169: 2	<u>.</u>	H0169: 2 and L0519:	1		,	•				,	H0169: 2, L0749: 2	and L0748: 1.	H0169: 2	H0169: 2	H0169: 2	H0169: 2
	Glu-28 to Gly-42.			Ser-2 to Pro-10.	Ala-38 to Ser-48.	Met-4 to Leu-9,	Gly-39 to Gln-46.	Ser-15 to Leu-23.		Leu-18 to Arg-25,	Gly-35 to Lys-40.	Ser-18 to Thr-25.			1				1		Glu-11 to Thr-19.					Lys-9 to Thr-14,
	3349	3350	3351	3352	3353	3354		3355	3326	3357		3358									3359	i	3360	3361	3362	3363
	130 - 363	152 - 355	186 - 398	353 - 189	38 - 193	154 - 357		65 - 139	135 - 287	2 - 244		20 - 166									1-210		136 - 306	273 - 401	190 - 411	140 - 286
	662	663	664	999	999	199		899	699	0/9		671									672		673	674	675	9/9
	655596	999988	655744	009896	781490	897559		655538	655736	925495		598096									867871		867880	655749	655621	655533
	HPFCA71	HPFCF09	HPFCF24	HPFCF40	HPFCF83	HPFCH15		HPFCH89	HPFCM41	HPFCM87		HPFCN08									HPFC002		HPFCO67	HPFCQ88	HPFCR21	HPFCR82

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	H0169: 2	H0169: 3		H0169: 2		H0169: 2 and L0776:			H0328: 1, H0615: 1,	H0169: 1, L0807: 1 and	L0754: 1.	H0169: 2	H0169: 2	H0169: 2 and L0809:			H0169: 4			H0169: 3	H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2 and L0763:	TT01.00.3	HU109: 3
Glu-21 to Pro-26.	Met-1 to Cys-9.	Ile-3 to Ala-14,	Arg-63 to Pro-68.	Glu-9 to Arg-15,	Pro-24 to Tyr-39.	Leu-5 to Ser-11,	Pro-13 to His-19,	Lys-34 to Tyr-39.	Gly-22 to Cys-32.			Ser-16 to Asp-26.	Lys-23 to Val-34.	Leu-4 to Lys-18,	Gly-36 to Glu-45,	Lys-60 to Cys-65.	Asp-1 to Arg-7,	Thr-17 to Asn-22,	Leu-25 to Pro-30.	Ser-3 to Tyr-9.	Cys-32 to Pro-38.	Leu-5 to Gly-10.	•		Pro-18 to Asn-25.			
	3364	3365		3366		2367			3368			6988	3370	3371			3372	4		3373	3374	3375	3376	3377	3378	3379	2200	0000
	13 - 120	271 - 522		82 - 198		261 - 62			1 - 240			153 - 263	2 - 163	67 - 330	ı		392 - 538			156 - 320	121 - 318	197 - 367	2 - 202	8 - 160	166 - 342	36 - 212	63 173	1 7 7 7 70
	229	829		629		089			681			682	683	684			685			686	687	688	689	069	691	692	603	22
	655563	974257		655432		902559			525554			655588	00/096	655704			974249			973732	655610	655549	954333	655543	581133	655530	074560	7/17/
	HPFCT09	HPFCT53		HPFCT62		HPFCV19		-	HPFCV71			HPFCX18	HPFDD06	HPFDE38			HPFDE61			HPFDF79	HPFDG58	HPFDI23	HPFDL90	HPFDS59	HPFDT17	HPFDT54	HPFDT61	*********

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H0169: 2	H0169: 2	H0169: 2	AR050: 117, AR054:	88, ARU51: 81 H0169: 2	H0169: 2, L0747: 2,	H0688: 1, L0770: 1,	L0803: 1, L0748: 1 and	L0756: 1.	H0169: 2	H0169: 3	H0169: 2	H0674: 2	H0674: 2	S0150: 2		S0150: 2				S0150: 2	S0150: 2	H0484: 1 and S0150: 1.		S0150: 2	AR061: 9, AR089: 7	H0616: 1, S0150: 1 and	L0581: 1.
His-46 to Pro-51.			Pro-14 to Gly-25.		Val-1 to Lys-11,	Pro-24 to Asp-33,	Lys-44 to Glu-58.			Ile-1 to Gly-44.		Ala-7 to Arg-12.	Lys-9 to Leu-15.	Asn-1 to Lys-7,	Pro-14 to Cys-23.	Ser-1 to Arg-7,	Pro-57 to Trp-67,	Pro-70 to Ala-75,	Ser-87 to Gly-95.	Pro-39 to Glu-46.	Lys-1 to Lys-17.	Gly-1 to Val-6, -	Asp-25 to Gln-42.	Ser-8 to His-16.			
3381	3382	3383	3384		3385				3386	2387	3388	3389	3390	1688		3392	,			3393	3394	3395		3396	3397		
2 - 232	36 - 167	214 - 369	124 - 354		1 - 294				25 - 213	2 - 187	142 - 309	63 - 212	39 - 113	17 394		2 - 334				106 - 243	61 - 2	2 - 463		64 - 174	282 - 608		
694	695	969	269		869				669	200	701	702	703	704		705				706	707	208		402	710		
522113	867879	739617	867870		655571				655764	960372	925499	953536	917775	655748		655595				919469	655573	928614		615007	925424		
HPFDU30	HPFDU38	HPFDU59	HPFDV71		HPFDX13				HPFDZ20	HPFEA08	HPFEA32	HPFMA06	HPFML02	HPIAE79		HPIA083				HPIAQ49	HPIAQ76	HPIAS40		HPIAV80	HPIAX11		

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S0150: 2	AR089: 4, AR061: 2	S0150: 2			H0546: 1 and S0150: 1.		S0150: 2	S0150: 2	L0439: 2, H0616: 1	and S0150: 1.	S0152: 2	S0152: 2		S0152: 2 and L0780: 1.		S0152: 2	S0152: 2	S0152: 2		S0152: 2	•	S0152: 2	L0748: 3, S0152: 2,	H0615: 1, H0617: 1 and	L0758: 1.	S0152: 2	S0152: 2	S0152: 2
	Ile-47 to Val-53,	Phe-71 to Thr-76,	Ser-105 to Thr-113,	Glu-121 to Ser-129.	Ala-15 to Ser-21,	Gln-30 to Asp-36.	Tyr-30 to Cys-36.					His-1 to Asp-6,	Ala-16 to Ala-25.	Cys-5 to Gly-12,	Ser-47 to Arg-52.	His-1 to Leu-19.		Val-2 to Ser-14,	Gly-27 to Ala-37.	Arg-5 to Lys-13,	Ser-20 to Thr-25.	Leu-43 to Cys-51.				Ser-29 to Arg-35.	Ser-19 to Gln-25.	
3398	3399				3400		3401	3402	3403		3404	3405		3406		3407	3408	3409		3410		3411	3412			3413	3414	3415
2-289	2 - 424		·		1 - 468		176 - 283	133 - 294	211 - 414		1 - 153	3 - 269		154 - 330		3 - 251	180 - 332	141 - 290		53 - 187		180 - 335	346 - 594	-		162 - 326	1 - 81	99 - 263
711	712				713		714	715	716		717	718		719		720	721	722		723		724	725			726	727	728
652753	884289				725539		622219	655757	786117		655540	655531		655601		867831	655712	655694		655765		952852	823393			655761	655708	655751
HPIAZ37	нРВQ37				HPIBR51		HPIBT49	HPIBY65	HPICC89		HPJAB19	HPJAB84		HPJAC36		HPJAC92	HPJAD09	HPJAD66		HPJAD82		HPJAV07	HPJAW56			HPJBI17	HPJBI89	HPJBK52

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S0152: 2		S0152: 2	S0152: 2	S0152: 2	H0056: 1 and S0152: 1.	S0152: 2	H0253: 1 and S0152: 1.	•		S0152: 2	S0152: 2	S0152: 2	S0152: 2	S0152: 2	S0152: 2 and L0070: 1.	,	,					S0152: 2	H0615: 2 and S0152: 1	S0152: 2	6 -64201 6 -04201	H0553-1 1.0766-1	L0666: 1, S0152: 1 and
Gln-13 to Thr-18,	His-40 to Met-45.		Asn-42 to Gly-51.		Pro-36 to Gly-62.		Ala-14 to Lys-21,	Asp-37 to Gly-48,	Gly-60 to Leu-65.			Pro-3 to Cys-11.	Val-2 to Thr-8.	Ser-1 to Gly-16.	Leu-8 to Lys-19,	Asp-25 to Arg-33,	Ser-40 to Ser-63,	Ala-70 to Val-77,	Glu-91 to Asp-97,	His-108 to Asn-116,	Lys-130 to Glu-136, Asp-139 to Val-144.				Ser-23 to Arg-28.	D	,
3416		3417	3418	3419	3420	3421	3422			3423	3424	3425	3426	3427	3428							3429	3430	3431	3432		
29 - 193		10 - 123	32 - 370	113 - 244	95 - 337	2 - 286	260 - 460			245 - 334	239 - 349	111 - 203	79 - 183	102 - 242	438 - 1031						•	386 - 556	299 - 454	79 - 183	292 - 483		
729		730	731	732	733	734	735			736	737	738	739	740	741							742	743	744	745		
628856		655729	926787	964259	966676	590404	560896			655730	655600	625569	922850	934170	958182				•	-		906904	931027	838748	954970		
HPJBU08		HPJBV17	HPJCC04	HPJCP10	HPJCP11	HPJCS84	HPJCV50	,		HPJCX15	HPJCX26	HPJCY70	HPJCZ03	HPJCZ06	HPJDA08	_						HPJDJ58	HPJDP05	HPJDX94	HPJEE38		

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L0777: 1.	S0152: 2	S0152: 2	H0435: 1 and S0152: 1,111	S0152: 2	AR061: 0. AR089: 0			S0152: 2		L0754: 39, L0748: 7,	H0553: 4, H0030: 1,	L0142: 1 and S0454: 1.	H0030: 2	H0030: 2	H0030: 2	1	H0030: 2	H0030: 1, H0038: 1	and L0758: 1.	H0031: 2	H0031: 2	H0031: 2	H0031: 2 and L0777:		H0031: 3			
	Gly-1 to Pro-7.	Gly-1 to Ala-11.		Thr-29 to Gly-38.	His-8 to Gly-18,	Leu-40 to Ile-45,	Asn-100 to Asp-105.	Leu-17 to Glu-23,	Arg-27 to Glu-35.	Gly-1 to Arg-9.					Gly-1 to Ala-7.	Pro-42 to Asn-47.	Phe-29 to Lys-35.	Glu-1 to Thr-9.					Gln-20 to Ser-31,	Phe-41 to Gly-47.	Tyr-19 to Gly-46,	Ser-48 to His-59,	Gly-65 to Gly-77,	Thr-91 to Tyr-96.
	3433	3434	3435	3436	3437			3438		3439			3440	3441	3442		3443	3444		3445	3446	3447	3448		3449			
	14 - 130	284 - 538	149 - 328	239 - 448	39 - 377		1	70 - 213		49 - 189	•		236 - 3	287 - 72	16 - 183		57 - 245	2 - 241		40 - 153	2 - 214	1 - 147	125 - 301		3 - 503			
	746	747	748	749	750			751		752			753	754	755		756	757		758	759	760	761		762			
	926815	930988	927618	867725	836503			934096		717680			557554	503751	503732		503730	558187		705471		954057	577661		275626			
	HPJEIS5	HPJEJ39	HPJEQ04	HPJEQ22	HPJET90			HPJEV06		HPLAN47			HPLAR41	HPLBB50	HPLBL31		HPLBL57	HPLB061		HPMAG19	HPMAH75	HPMBK34	HPMBK49		HPMBM48	,		

HPMBN02	920865	763	1 - 120	3450		H0031: 2	
HPMB010	968365	764	39 - 278	3451		H0031: 4	
	867677	765	1 - 249	3452	Gly-1 to Gly-8.	H0031: 3	
HPMBR17	785732	992	192 - 404	3453	Thr-1 to Gln-7, Pro-24 to Glv-32	H0031: 2	
HPMBU81	557870	191	28 - 165	3454	Ser-32 to Thr-41.	H0031: 2	
HPMBX35	531058	292	3 - 125	3455		H0031: 2	
HPMBX79	577637	692	118 - 276	3456		H0031: 2	
HPMBY76	531338	770	2 - 163	3457	Tyr-25 to Gly-32.	H0031: 2	
HPMBY83	527006	771	90 - 341	3458	Ser-50 to Gly-55.	H0031: 4 and L0803:	12
HPMBZ05	932527	772	62 - 196	3459		H0031: 2	
HPMCB65	531289	773	111 - 302	3460	Gly-12 to Ile-18.	H0031: 2 and L0605:	
HPMCC73	531066	774	171 - 314	3461	Pro-28 to Pro-42.	H0031: 2	
HPMCD77	529960	775	3 - 278	3462	Asp-1 to Cys-6.	H0253: 1 and H0031:	
HPMCI02	381961	922	326 - 66	3463	Leu-19 to Thr-25,	H0031: 2, L0809: 1,	
•					Arg-66 to Phe-87.	L0438: 1 and L0439: 1.	
	881473	2656	3 - 341	5343			
HPMCI65	577598	777	27 - 161	3464		H0031: 2	
HPMCJ14	524768	778	93 - 317	3465	Glu-30 to Asp-40.	H0031: 3	
HPMCJ19	531279	6//	1 - 243	3466		H0031: 2	
\neg	577601	780	44 - 304	3467	ı	H0031: 2	
HPMCK65	742095	781	54 - 314	3468	Leu-6 to Leu-16,	H0031: 2 and L0600:	
					Thr-24 to Trp-29.	1.	
HPMCS19	954056	782	3 - 182	3469	Gln-1 to Gln-9,	H0031: 3	
HPMCG65	061250	792	16 100	0777	T 1 to A 0	110021	
_	201720	(0)	10 - 100	34/0	Tyr-1 to Arg-8.	H0031: 10	

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H0031: 3 and L0594:	H0031: 2 and L0758:			H0031: 2		H0031: 2 and L0662:	I.	H0031: 2		H0031: 2	H0031: 3, L0667: 1	and L0748: 1.	H0031: 4	H0031: 2		H0031: 2	H0031: 2	H0031: 2		L0748: 14, H0553: 4,	L0754: 4, H0644: 3,	H0031: 2, L0005: 1,	L0774: 1, S0454: 1,	L0749: 1 and L0780: 1.	H0031: 2	H0031: 2 and H0644:
Arg-5 to Trp-15.	Gly-1 to Ser-8, Leu-36 to Gly-42	Leu-48 to Asn-55,	Lys-83 to Met-91.	Pro-19 to Lys-26,	Pro-30 to Gly-55.	Gln-6 to Thr-19.		Asp-7 to Leu-12,	Ala-16 to His-21.					Glu-1 to Pro-6,	Thr-45 to Val-50.			Gly-38 to Ser-45,	Gly-72 to Gly-78.						Lys-8 to Lys-15.	Phe-5 to Gly-10.
3471	3472			3473		3474		3475		3476	3477		3478	3479		3480	3481	3482		3483					3484	3485
31 - 186	1 - 285			2 - 202	,	115 - 312		119 - 271		189 - 338	272 - 397		108 - 215	49 - 330		55 - 204	33 - 227	3 - 299		163 - 276					7 - 51	116 - 286
784	785			786		787		88/		789	064		791	792		793	794	795		962					797	798
657532	867673			727392	0.000	96/655	2000	/89/98		725180	571411		582594	577590		531275	867682	745346		277626					531274	531276
HPMCV93	HPMCW25			HPMCW53	TTDIACONT	HFMCXII	COSTON COLL	HFMCY30		HPMCY31	HPMCY35		HPMDJ09	HPMDL78		HPMD039	7	HPMDT91	_	HPMDU19				_	_	HPMDZ62

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				1						102480,	123620,	133450,	133450,	138981,	188826,	190040,	190040,	190040,	600850,	601669,	602229	189800,	600983	-			
										22q12-q13												4q31.1-q31.2	,				
1	H0031: 2	H0031: 2	H0031: 2	H0031: 2 and L0740: 1.	AR061: 6, AR089: 3	H0031: 3	H0031: 4	H0031: 2	H0031: 2	H0031: 3, L0731: 3,	H0046: 2, L0617: 1,	L0747: 1 and L0779: 1.			-					ı		H0031: 2			H0031: 3		
	Lys-20 to Thr-31.			Ile-29 to Ile-36.	Lys-23 to Ser-33.				Pro-20 to Pro-26.	Arg-1 to Ser-8,	Pro-23 to Gly-30,	Glu-62 to Arg-68.	•		•		I					Pro-15 to Leu-27, -	Phe-44 to Asp-49,	Ala-83 to Lys-99.	Asp-37 to Thr-43,	Ala-46 to Ala-53,	His-64 to Trp-76.
	3486	3487	3488	3489	3490		3491	3492	3493	3494												3495			3496		
	3 - 149	136 - 249	92 - 214	1 - 114	2 - 451		240 - 437	182 - 319	3 - 122	117 - 443				,								3 - 404			3 - 281		
	799	800	801	802	803		804	805	806	807												808			809		
	531349	867658	268899	702501	531347		531321	577619	925080	784781												920308			575934		
	HPMEB66	HPMEC16	HPMEC36	HPMEC69	HPMED52		HPMEE48	HPMEE66	HPMEG50	HPMEI39												HPMFB02			HPMFB28		

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H0031: 8 and L0581: 2.	H0031: 2	H0031: 2	•	H0031: 2	H0031: 2		H0031: 2	H0031: 2	H0031: 2, L0438: 2	and L0439: 2.	H0031: 5	AR089: 1, AR061: 1	H0031: 2	H0031: 2, H0644: 1	and L0527: 1.	1	H0428: 1, H0031: 1,	L0766: 1, L0659: 1,	H0690: 1, L0439: 1,	L0754: 1 and L0756: 1.	H0031: 3	H0031: 2	H0031: 3	H0031: 3	H0031: 4 and L0754:	1.	H0031: 3
		Leu-2 to Glu-8,	Pro-39 to Ser-44.	Gln-14 to Thr-22.	Ser-8 to Ser-14,	Ser-27 to Pro-48.	Pro-38 to Gly-45.		Gln-7 to Ser-12.			Met-43 to Trp-52.		Ala-1 to Lys-6,	Pro-12 to Trp-19,	Met-63 to Lys-68.			,	•	Arg-15 to-Val-21.	Leu-9 to Ile-17.					Ala-1 to Asn-9,
3497	3498	3499		3500	3501		3502	3503	3504		3505	3506		3507			3508				3509	3510	3511	3512	3513		3514
277 - 465	46 - 234	148 - 291		3 - 158	2 - 214	1	1 - 183	248 - 460	170 - 487		53 - 259	191 - 346		2 - 205			482 - 631				262 - 444	107 - 427	121 - 348	118 - 261	483 - 692		64 - 342
810	811	812		813	814		815	816	817		818	819		820			821				822	823	824	825	826		827
575620	526594	577593		577633	577636		575941	575943	575932		577588	692626		874359			582595				968821	867662	577629	575914	867651		711640
HPMFB37	HPMFB75	HPMFB84		HPMFE35	HPMFE60		HPMFE73	HPMFH21	HPMFJ50		HPMFJ55	HPMFL08		HPMFL80			HPMFM29					-	HPMFP30	HPMFP38	HPMFQ84		HPMFS41

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		H0031: 4	H0031: 2	H0031: 2	H0031: 2	H0031: 2	H0031: 2		H0031: 5 and L0142:		L0774: 4, H0031: 2,	L0439: 2, L0435: 1.	L0803: 1 and H0670: 1.	H0031: 2	H0031: 2	1	(H0031: 2	H0031: 4	H0031: 2	H0031: 9 and L0758:	1.	H0031: 2		H0031: 2	H0031: 3	H0031: 3, H0651: 1,	L0731: 1 and L0758: 1.
Glu-17 to Glu-22,	Trp-36 to Gln-44.		Tyr-24 to His-32.	Lys-1 to Gly-7.	Phe-15 to Asn-20.	Gln-10 to Gln-20.	Arg-18 to Val-24,	Glu-43 to Gly-54.	Asp-19 to Ser-30.		Leu-34 to Cys-41.			·	His-1 to His-7,	Ser-16 to Glu-22,	Phe-65 to Ser-71.	Arg-28 to Leu-37.	His-39 to Thr-44.	i i	Gln-6 to Trp-17.		Arg-18 to Ser-29,	Gly-62 to Tyr-78.			Gly-1 to Ser-16,	Ser-37 to Lys-42,
		3515	3516	3517	3518	3519	3520		3521		3522			3523	3524			3525	3526	3527	3528		3529		3530	3531	3532	
		28 - 180	169 - 300	172 - 312	57 - 167	204 - 365	16 - 246		3 - 152		284 - 412			158 - 355	3 - 218			3 - 206	88 - 243	180 - 320	55 - 381		1 - 306		30 - 353	176 - 340	1 - 564	
		828	829	830	831	832	833		834		835			836	837			838	839	840	841		842		843	844	845	
		916662	575894	652097	575911	956263	590096		932529		275908			867657	577642			577603	968359	506379	920313		703835		867648	873392	954823	
		HPMFT04	HPMFU89	HPMFV28	HPMFV82	HPMFV88	HPMFW25	,	HPMFW78		HPMFX13			HPMFX65	HPMFX70			HPMFX92	HPMGA83	HPMGB22	HPMGC07	$\neg \tau$	HPMGC23		HPMGE31	HPMGE95	HPMGF06	

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		- -															138079,	138079,	139191,	142959,	153880,	180104,	600994,	601649		
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	H0031: 2		H0031.2	H0031: 2	H0031: 3	H0031: 2	H0031: 2	H0031: 3, L0757: 3,	L0803: 2 and L0766: 1.		H0031: 3 and L0754:	1.	L0805: 5, H0031: 2,	L0749: 2, L0766: 1,	L0776: 1 and L0779: 1.	H0031: 2	H0031: 2		•	-					H0031: 2	H0031: 2
Arg-44 to Val-50.	Tyr-1 to Ile-7,	Cys-20 to Asp-33,				Trp-40 to His-45.		His-18 to Cys-23,	Glu-33 to Phe-40,	Thr-42 to Trp-47, Cvs-53 to Glu-63.		,	Ala-1 to Asn-16,	Lys-45 to Thr-54.		ı					•					
	3533		3534	3535	3536	3537	3538	3539			3540		3541			3542	3543			•					3544	3545
	226 - 92		267 - 398	62 - 283	79 - 219	147 - 359	223 - 369	159 - 488			347 - 529		2 - 223	_		189 - 356	24 - 224		-					,	46 - 111	230 - 367
	846		847	848	849	850	851	852			853		854			855	856							2,0	857	858
	577615		577641	924521	920326	864040	575924	671936			730751		854081			577599	506235							10000	1,5951	796440
	HPMGF32		HPMGH16	HPMGI03	HPMGI84			HPMGK59			HPMGK62	$\overline{}$	HPMGM33				HPMGR80							\neg	\neg	HPMGS24

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								19q12	•																			
H0031: 2	H0031: 2	H0031: 4	H0031: 2	H0031: 2	-			H0031: 2		H0031: 2	H0031: 2, L0769: 1	and L0439: 1.	H0031: 3	•	H0031: 2	H0031: 2		•	H0031: 3	H0031: 1 and H0644:	1.	H0644: 2		H0644: 3	H0644: 2		H0644: 2	H0644: 2 and H0615:
Ser-26 to Trp-32.	His-1 to Glu-6.	~ -	Asp-23 to Pro-34.	His-1 to Gln-15,	Arg-37 to Asp-48,	Ser-63 to Pro-77,	Gly-79 to Lys-85.	Ser-2 to Pro-27,	Leu-38 to Asn-52.		Lys-31 to Thr-37.		Gly-1 to Ser-8,	Ile-41 to Ile-49.		Arg-13 to Ala-23,	Met-27 to Gly-36,	Ser-109 to Leu-116.	Arg-1 to Thr-20.			Leu-39 to Ser-46,	Gly-87 to Pro-94.	Gln-42 to Asp-50.	Ile-1 to Gln-10,	Ser-20 to Gln-27.		Glu-15 to Arg-20.
3546	3547	3548	3549	3550				3551		3552	3553		3554		3555	3556			3557	3558		3559		3560	3561		3562	3563
1 - 123	35 - 301	88 - 210	38 - 277	3 - 257			,	3-314		142 - 294	289 - 682		1 - 147		46 - 198	1 - 441			159 - 1	1 - 267		2 - 370		136 - 330	207 - 425		1 - 171	166 - 276
859	098	861	862	863				864		865	998		298		898	698			870	871		872		873	874		875	876
970815	968364	582596	577635	920309				575903		970813	577595		531382		577631	928433	•		760426	914759		930844		930806	867587		965642	930873
HPMGT67	HPMGV12	HPMGV15	HPMGV59	HPMGW48 920309				HPMGX23		HPMHA80	HPMHB74		HPMHB83		HPMHC74	HPMHD66			HPMHD71	HPMJC01		HPMJC05		\neg	HPMJE84		HPMJF76	HPMJI81

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		-					;			126650,	126650,	154276,	173360,	173360,	602136,	602136,	602136,	602447					
				• •						7q22	ı											1	
AR089: 21, AR061: 15 H0644: 2	H0644: 2		H0644: 2		H0644: 3	H0644: 3	H0644: 2, L0794: 1	and L0748: 1.	H0644: 2	AR061: 2, AR089: 1	L0666: 3, L0777: 2,	L0608: 2, H0046: 1,	H0031: 1, H0644: 1,	L0803: 1, L0783: 1,	H0672: 1, L0740: 1,	L0750: 1 and L0755: 1.		,	H0644: 2 and L0589:	H0644: 3 and L0471:	1.	H0644: 2 and L0527:	H0644: 2
	Ala-1 to Phe-6, Thr-32 to Gly-38,	Pro-54 to Gln-73.	Arg-37 to Asn-50,	His-81 to Gln-89.	Tyr-15 to Tyr-21.		Ser-8 to Phe-26.			Arg-15 to Gln-21,	Gln-47 to Ile-53,	Lys-58 to Asp-72.	ı				r a		Arg-2 to Tyr-7.		,	Leu-36 to Gln-52.	Arg-43 to Ser-48.
3564	3565		3566		3567	3568	3569		3570	3571									3572	3573		3574	3575
84 - 470	1 - 222 -		160 - 429	1	204 - 353	3 - 203	287 - 454	'	3 - 125	64 - 567						-			222 - 545	343 - 543		173 - 421	155 - 370
877	878		879		880	881	882		883	884								200	688 835	988		887	888
946876	922649		917419		958001	922657	969478		957997	894416									86/5/3	867533		918123	922621
HPMJN59	HPMJO46		HPMJR02		- 1	HPMJY55	HPMKB19 969478		HPMKI53	HPMKM81								27.620	HFMKN43	HPMLE04		HPMLK02	HPMLK76

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H0544: 1, H0644: 1	and L0754: 1.	H0644; 2	H0111:2	H0032: 2 and L0759:		H0032: 2			H0032: 2		L0758: 2, H0688: 1	and H0032: 1	H0032-2	H0032-2	1	TT0033 9	H0032: 2	H0032: 2	H0032: 2	H0032: 2	H0032: 2	H0032-2	H0032. 2	T10011 0	H0211: 2	H0212: 2 and H0032:	I.	H0032: 1 and H0212:	1. 1.0777:3 1.0662:1
Gly-4 to Ser-11.			Ser-8 to His-17.	Gly-8 to Glu-21,	Val-23 to Ser-37.	Cys-19 to Ser-29,	Ser-31 to Gly-37,	His-48 to Gln-53.	Ser-12 to Gln-18,	Arg-23 to Gly-30.	Gln-13 to Ile-22,	Val-34 to Ser-39.	Arg-23 to Glu-35	Ile-6 to His-11.	Gly-24 to Val-29.		Con 12 to A 21 20	3ci-13 to Ash-20.	Ser-19 to Ser-25.	Leu-39 to Ile-47.	,	,			1 to C1 7	Gill-1 to Gily-/,	Inr-22 to Gly-31.		Arg-8 to Phe-20
3576		3577	3578	3579		3580			3581		3582		3583	3584		3585	3586	2507	7900	3588	3589	3590	3591	3502	\top			3594	3595
1-285		53 - 211	44 - 226	3 - 329		87 - 299	1		191 - 27		1 - 183		98 - 241	91 - 330		192 - 299	178 - 336	2 121	171 - 7	3 - 296	3-176	23 - 169	156 - 269	3 - 188	258 - 410		0.00	127 - 273	295 - 495
688	000	890	891	892		893			894		895		968	897		868	668	000	200	102	302	903	904	905	906		200	<u> </u>	806
690856	\dashv		509490	971652		585489			236630		868692		655537	655587		655693	960316	52725	007070	33490	904909	655554	968521	666295	849081		700761	10/00/	967944
HPMLL74	LIDIAT WILD	THE WILL WILL	HPMSF86	HPKAE13	TOTAL GATT	HPKAN84	•		HPRAU45	OF A COLL	HFKAZ10		HPKBA65	HPRBE36		HPRBL91	HPRCB11	HPRCB21	HDBCCOS	T	\top	\Box	HPRCU13	HPRSB16	HPRTL26		HPRTD73		HPVAB11

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L0803: 1, L0787: 1,	H0672: 1, S0013: 1 and L0747: 1	S0013: 2		L0662: 1, L0774: 1,	L0659: 1, H0672: 1,	S0013: 1 and L0754: 1.	T0069: 1 and S0013: 1.		S0044: 2 and H0618: 1.19g			S0044: 2	AR061: 7, AR089: 3		L0777: 2 and L0480: 1.	S0044: 2		S0044: 2			S0044: 2	S0044: 2			S0044: 2	S0044: 2	S0044: 1 and S0396: 1
Gly-36 to Lys-42.		Arg-4 to Ser-20,	Lys-50 to Glu-60.	Ile-22 to Asn-28.			Ser-3 to Gly-11,	Thr-42 to Gly-52.	Arg-39 to Asp-55,	Ala-93 to Ser-99,	Pro-102 to Ser-111.	Asn-6 to Tro-17.	His-18 to Pro-24.			Ala-7 to Thr-13,	Arg-43 to Arg-49.	Arg-44 to His-50,	Gln-62 to Arg-69,	Gln-80 to Trp-87.	Phe-24 to Thr-29.	Glu-10 to Gln-19,	Gln-22 to Lys-27,	Pro-37 to Val-44.	Leu-4 to Lys-9.	Ser-15 to Ser-22.	Leu-43 to Leu-48.
		3596		3597			3598		3599			3600	3601			3602		3603			3604	3605			3606	3607	3608
	1	108 - 287		2 - 145			204 - 362		116 - 550			19-156	655 - 266	1		66 - 227		14 - 289			197 - 367	2 - 157			236 - 373	215 - 415	513 - 656
		606		910			911		912			· 913	914			915		916			917	918			919	920	921
		822229		753744			525537		169559			655527	908450			655733		867289			657484	655614			655560	655577	514113
		HPVAF49		HPVAF69			HPVAH36		HPWAF85			HPWAH48	HPWAS77			HPWBA33		HPWB084				HPWCJ27	·	7	_		HPWDA73

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	H0648: 1 and S0044: 1.	C0044. 9 - 11 0710 -	S0044: 2 and LU/48: 1.	501/4.2	H0618: 1, H0546: 1	and H0040: 1.	L0777: 3, H0546: 2,	L0803: 2, L0755: 2,	L0637: 1, L0662: 1,	L0794: 1, H0659: 1 and	L0758: 1.	L0800: 2, L0764: 2,	L0779: 2, H0546: 1,	L0351: 1, L0769: 1,	L0771: 1, L0438: 1,	H0660: 1, L0439: 1 and	L0592: 1.	L0731: 3, H0545: 2,	L0744: 2, L0021: 1,	H0546: 1, L0769: 1,	.0666: 1 and L0665: 1.	L0777: 2, L0005: 1,	H0546: 1, H0328: 1,	.0761: 1, L0373: 1.	.0527: 1, L0526: 1,	.0754: 1, L0752: 1,	L0755: 1, L0731: 1 and	L0608: 1.
	Gln-1 to Gly-8,	Lys-15 to Ser-23.											Arg-37 to Gly-48.							<u> </u>		Gln-1 to Phe-10.	<u></u>				<u>.</u>	T
5344	3609	3610	3611	3612	3613		3614					3615			•			3616		-		3617					 -	
53 - 373	15 - 164	193 - 342	74 - 268	138 - 254	2 - 409		638 - 489					1 - 150		ı				2-307			300	011 - 826		-			_	
2657	922	923	924	925	926		927				3	928					000	676			000	956						
716228	961529	537333	655713	1655591	710354	2000	/02522				705420	/83439					211066	00011/			200030	/00000	_					
	HPWDA86 961529	HPWDD72	HPWSB35	HPZAB38	HSWAC73	TIGHTA	TISWALD39				Demonsor	IIS W BL/80					Hewreton 711022	O+COT M CTT			HSW/BO34							

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H0618: 2, H0038: 1 and H0616: 1.	H0038-3	H0038: 2	H0038: 3 T 0747: 2	H0618: 1, 1,0665: 1	L0779: 1 and L0758: 1.			T 0750 7 11000 0	H0616: 1, L0659: 1 and	L0779: 1.		H0038: 11, L0758: 7,	1100103. 2 alid H0010: 1.	H0038: 1 and H0616:	H0038: 12, H0616: 6,	H0593: 1, L0439: 1 and	L0756: 1.	H0038: 11, L0758: 7,	LU/53: 2 and H0616: 1.	U0616.4 1 0750.7	110010: 4, LU/36: 2	and H0038: 1.	H0038: 1 and H0616:	Ι.
Gln-1 to Met-10, Met-16 to Lys-21,	Pro-53 to Asn-59	Arg-16 to Thr-28	Cvs-5 to Ser-11	Pro-13 to Thr-18.	His-28 to Arg-33,	Arg-40 to Arg-45,	Pro-52 to Arg-57, His-66 to Gln-71				Arg-1 to Pro-9.	Thr-5 to Glu-11.	V/21 C 4 - T 13	Val-6 to Lys-13.		,		Gln-11 to Lys-24,	Δrg-85 to Cer 07,	Glu-13 to Ten 20				
3618	3619	3620	3621	! ! !				3600	7700		5345	3623	2634	3024	3625			3626		3627	1		3628	
34 - 513	1 - 315	50 - 187	1 - 246		١			37-326	070 - 10		330 - 91	238 - 116	100 104	199 - 104	423 - 202			3 - 626		10 - 324	- 		2 - 130	
931	932	933	934					935			2658	936	037	· · · · · · · · · · · · · · · · · · ·	938	٠		939		940			941	
923070	537136	504353	961232			1		835805			954433	537271	787500	000101	692985		300	963538		966113	!		783328	
HTEAA54 923070	HTEAB52	HTEAD32	HTEAD95			,		HTEAF07	1			HTEAF26	HTFAGS0	000000000000000000000000000000000000000	HTEAK57		00.11.0011	HIEAL28	-	HTEAP91			HTEAR84	

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L0758: 3, H0616: 2 and H0038: 1.	L0758: 3, H0038: 2, L0794: 2 and L0779: 1.	H0038: 2 and H0616: 1.	AR054: 7, AR051: 2,	AR089: 1, AR061: 0	L0663: 2, H0038: 1,	H0672: 1 and L0779: 1.	H0038: 2	H0038: 2 and H0616:	1.	H0038: 7, H0253: 1,	H0616: 1 and L0151: 1.			1		H0038: 2, H0328: 1	and H0616: 1.	H0038: 2 and H0616:	2.	H0038: 1 and H0616:	1.	H0038: 2, H0040: 2	and L0758: 1.	H0038: 2	AR061: 1, AR089: 0
Lys-17 to Lys-26.	Tyr-14 to Ser-19.		Pro-32 to Asn-39.				Asn-28 to Cys-34.	Pro-44 to Ser-50.		Ser-86 to Thr-97,	Gln-104 to Pro-116,	Glu-168 to Ser-182,	Thr-190 to Ser-198,	Glu-208 to Tyr-213,	Ser-230 to Val-237.	Glu-38 to Ala-46.		Ser-39 to Val-49.		Lys-1 to Asn-14.		Lys-24 to Val-32.			Ile-11 to Trp-17,
3629	3630	3631	3632				3633	3634		3635						3636		3637		3638		3639		3640	3641
368 - 520	280 - 143	286 - 501	1 - 321	1			13 - 252	3 - 152		3 - 971						373 - 540		185 - 334		106 - 552		201 - 359		250 - 417	3 - 356
942	943	944	945				946	947		948						949		950		951		952		953	954
927010	679390	793441	887782				967959	779134		779265						742218		693377		953904		854052		508150	960427
HTEAV43 927010	HTEAY67	HTEAZ54	HTEBC74				HTEBD35	HTEBD40		HTEBJ78						HTEBP39		HTEBS30		HTEBS77		HTEBS80			HTEBY08

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H0038: 4	H0038: 2	H0616: 3 and H0038:	<u></u>			H0038: 2 and H0616:		H0253: 1, H0038: 1 and L0758: 1.	H0038: 2 and H0616:	H0038: 4 and H0616:		H0038: 2 and L0779:	AR061: 596, AR089:	427	H0038: 2, H0616: 1	and L0439: 1.	AR061: 49, AR089: 45	H0038: 2	H0038: 2, L0748: 2,	.0749: 2, L0769: 1,	20776: 1, L0659: 1 and	L0663: 1.	H0038: 2	
Arg-52 to Glu-65.	Lys-66 to Thr-72.	Arg-1 to Phe-12, Met-34 to I vs-39	Lys-46 to Ser-56,	Pro-72 to Lys-79,	Lys-101 to Asp-107,			Glu-9 to Arg-24, Arg-32 to Thr-40.		His-27 to Leu-39.		Glu-8 to Lys-17.		Arg-117 to Cys-126.		8	7	ŀ				1	Arg-22 to Tyr-28,	JUL-10 W PUB-01.
	3642	3643				3644		3645	3646	3647		3648	3649				3650		3651				3652	
	1 - 231-	1 - 546			-	106 - 243		1 - 435	2 - 121	1 - 204	1	111 - 389	1 - 387				792 - 406		96 - 248				3 - 311	
	955	926	•			957		958	656	096	,	961	362				963		964			•	965	
	526281	923026				711523	1	967340	958381	507053		764416	6911369				947605		208860				870692	
	HTEBY15	HTEBY28				HTEBY41		HTEBY61	HTEBZ21	HTECA13		HIECA16	HTECA21				HTECA32		HTECA51				HTECA83	

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H0038: 3	H0253: 1 and H0038:	H0038: 2 and H0616: 2.	H0038: 1 and H0616:	H0038: 4, H0616: 3,	L0758: 3 and L0779: 1.	H0038: 2 and H0616: 1.	H0038: 2 and H0616:	1.	H0038: 2					H0038: 2		H0038: 2	H0616: 14, H0038: 12,	H0618: 6, H0253: 5,	L0758: 5, L0768: 4,	H0411: 2, L0779: 2,	L0151: 1, L0697: 1 and	S0398: 1.	H0038: 2
Tyr-1 to Arg-6, 18-49 to Val-55.		Arg-1 to Arg-11, Arg-55 to Ser-70, Ser-76 to Glv-81.		Arg-15 to Leu-21,	Ala-29 to Glu-34.	Asn-9 to Asn-16, Asp-60 to Lvs-68.	Gln-18 to Trp-29,	Arg-46 to Val-52.	Ala-10 to Thr-17,	Glu-19 to Glu-28,	Thr-36 to Trp-44,	Ile-47 to Gly-54,	Ala-61 to Pro-69.	Pro-6 to Cys-11,	Pro-77 to His-92.		Arg-1 to Ala-35,	Gly-41 to Lys-61.					Val-9 to His-36.
3653	3654	3655	3656	3657		3658	3659		3660					3661		3662	3663						3664
32 - 271	61 - 270	763 - 1005	1 - 147	203 - 463	100	84 - 287	37 - 459		1 - 297					138 - 491		154 - 411	2 - 508						1 - 141
996	<i>L</i> 96	896	696	970		9/1	972		973					974		975	926						977
921070	971673	963353	508143	844558	10000	/5606/	796820		508138					959874		508108	973163						518124
HTECB21	HTECC13	HTECC20	HTECC37	HTECC38	770011111	HIECC00	HTECC80		HTECC85					HTECC96		HTECD17	HTECD18						HTECD36

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H0038: 2, L0794: 2,	L0758: 1.	H0616: 4, H0038: 2	and L0758: 1.			H0038: 2	H0038: 8, L0758: 5,	L0794: 4, H0616: 2,	L0763: 1 and L0777: 1.	L0766: 2, H0038: 1	and H0616: 1.	H0038: 2		H0038: 2	H0038: 2		H0038: 2			H0616: 2 and H0038:	y	,			H0038: 2	H0038: 2	
His-8 to Arg-15,		Gly-2 to Ala-8,	Pro-10 to Thr-18,	Pro-23 to Ser-34,	Pro-45 to Asp-55.	Ile-1 to Gly-9.	Ser-29 to Gly-35,	Asp-85 to Val-92.				lle-1 to Arg-13,	Glu-25 to Leu-31.		Glu-1 to Thr-6,	Glu-30 to Met-43.	Gly-2 to Arg-19,	Arg-24 to Gly-29,	Lys-48 to Arg-54.	Asn-37 to Val-42,	Lys-82 to Glu-95,	Glu-100 to Leu-105,	Tyr-114 to Ser-120,	Leu-129 to Lys-134.		Gln-61 to Cys-76,	Ile-95 to Asp-111.
3665		3998				2998	3998			3669		3670		3671	3672		3673			3674					3675	3676	
3 - 161		3 - 275				2 - 286	2 - 286			2 - 352		2 - 253		3 - 296	123 - 257		3 - 164			2 - 418					141 - 329	1 - 423	
826		979				086	981			987		983		984	985		986			284					886	686	
527207		727422				620494	764830			790894		522983		522984	522964		252966			964734					522973	925527	
HTECD62		HTECD75				HTECE09	HTECE44			HTECE45		HTECE69		HTECE91	HTEDF13		HTEDF23			HTEDF57					\neg	HTEDG16	

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H0616: 2 and H0038:	H0038: 3	H0038: 2, H0616: 2,	L0/09: 1, L0/94: 1, I 0779: 1 and I 0758: 1	H0038: 1 and H0616;	-	AR061: 14, AR089: 12	H0618: 2, H0634: 2,	H0038: 1, H0616: 1 and	L0758: 1.	H0038: 2, H0616: 2,	L0740: 1 and L0758: 1.	H0038: 3	H0038-2	1 0740: 2 TIOC1E 1	LU/40: 2, HU013: 1,	H0428: 1, H0038: 1,	L0662: 1, L0805: 1,	L0661: 1 and L0751: 1.	H0038: 2 and H0616:	1.								
	Arg-1 to Glu-9, Thr-42 to Arg-40	20.01.6		Asn-1 to Ser-14,	Glu-103 to Gly-108.	Glu-7 to Lys-13,	Asp-29 to Leu-34,	His-83 to Pro-91,	Ser-106 to Thr-111.	Lys-18 to Arg-24,	Pro-30 to Thr-35.	Pro-20 to Thr-29.							Pro-31 to Ala-40.				,	•				
3677	3678	3679		3680		3681				3682		3683	3684	3685	200				3686									
169 - 324	3-170	33 - 206		1 - 411	1	121 - 705		,		65 - 544		274 - 549	43 - 165	3 - 305	3				3 - 257	_								
066	991	992		993		994				995		966	266	866)				999				•					
761752	522764	522765		957762		921243				932292		536477	519940	771404	•			2000	960303	•								
HTEDG34	HTEDH21	HTEDH22		HTEDH54		HTEDI02				HIEDII6	\neg		HTEDJ04					_	HIEDMOS									1

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H0038: 2		H0038: 2	H0553: 1 and H0038:	1.	H0038: 4	H0038: 1 and H0616:	H0038: 2	H0038: 2	AR061: 7, AR089: 3	L0758: 4, H0038: 2	and H0616: 1.	H0616: 2, H0038: 1	and L0758: 1.			H0038: 2	L0070: 2, H0038: 1	and H0616: 1.	H0038: 2		L0731: 6, L0758: 3,	H0618: 1, H0038: 1 and	L0794: 1.	H0038: 2 and H0616:	2.	H0038: 2	H0038: 3, L0438: 2,
Pro-1 to Trp-9,	Pro-25 to Lys-31.	Arg-8 to Ser-20.					Ser-9 to Ala-15.					Pro-11 to Cys-28,	Ser-41 to Leu-55,	Pro-58 to Asn-63,	Phe-67 to Ser-77.		1		Ala-25 to Thr-32,	Lys-46 to Gly-52.	Ile-2 to Gly-8.	1		Lys-16 to Ser-22.			Phe-37 to Ser-49.
3687		3688	3689	0000	3690	3691	3692	3693	3694			3695				3698	3697		3698		3699			3700		3701	3702
101 - 271	+	3 - 164	130 - 231	, 201	1 - 321	68 - 337	152 - 322	1 - 345	3 - 206			53 - 475		ı		318 - 494	88 - 171		53 - 238		137 - 706			2 - 730		3 - 164	324 - 566
1000		1001	1002	1003	1003	1004	1005	1006	1007			1008	-	-		1009	1010		1011		1012			1013		1014	1015
870711		530592	964379	377070	0/00/9	870548	839532	536821	530589			795332	·•··			530586	761585		530451		8200			932315		921114	523959
HTED031		HTED051	HTED059	UTENDIE	HIEDFIS	HTEDP31			HTEDQ30			HTEDQ72			╗		HTEDR71		HTEDR91		HTEDU45			HTEDU48		HTEDV02	HTEDX22

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H0616: 1 and L0439: 1	H0038: 2	H0616: 2 and H0038:	H0616: 3, L0759: 3	H0038: 1, L0774: 1 and	L0777: 1.	H0038: 2	H0169: 2 and H0038:	1.	H0038: 2 and L0779:	1.	H0038: 5 and H0618:	1.				H0038: 2 and H0616:		H0038: 2, L0758: 2	and L0779: 1.	H0038: 2				H0038: 3		H0038: 2
	Arg-1 to Asn-13, Met-37 to Pro-47.	Lys-28 to Lys-41.	Asp-67 to Asn-72.	Pro-113 to Gly-121.		Glu-11 to Gln-18.	His-1 to His-10.		Gln-9 to Asn-26.		His-19 to Lys-55,	Pro-72 to Ser-84,	Ser-92 to Gly-104,	Ser-111 to Asp-124,	Thr-129 to His-141.	Ser-1 to Gly-14,	Lys-28 to Ser-37.			Pro-5 to Gln-13,	Thr-40 to Arg-45, -	Thr-52 to Gln-57,	Phe-59 to Gly-64.	Glu-9 to Val-15,	Glu-24 to Pro-30.	Pro-8 to Leu-13.
	3703	3704	3705	-		3706	3707		3708		3709					3710		3711		3712				3713		3714
	172 - 357	3 - 140	151 - 762			189 - 326	86 - 199		271 - 549		100 - 615		1			1 - 216		202 - 384		88 - 345				72 - 215		2 - 328
	1016	1017	1018			1019	1020		1021		1022					1023		1024		1025				1026		1027
	530452	771505	922964			530580	925399		523962		924818					968517		530157		924840				507814		524059
	HTEDX55	HTEDY38	HTEDY54			HTEDY57	HTEEA03		HTEEB18		HTEEB33					HTEEC10		HTEEE65		HTEEF31				HTEEH31		HTEEU23

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H0038: 1 and H0616: 1.	H0038: 3	H0038: 2 and L0779:	1.	H0038: 2	H0038: 4, L0779: 2,	LV/30. 2 and LV010. 1.	H0038: 2	H0038: 2	H0616: 2 and H0038: 1.	H0038: 2 and H0616:	H0038: 2	H0038: 1 and H0616:-1.	H0038: 4 and H0616: 1.	L0776: 3 and H0038: 2.	H0038: 3	H0038: 1 and H0616: 1.	H0038: 2	H0616: 4 and H0038: 1.
Pro-32 to Asp-39, Lys-57 to Gly-65.	Ser-1 to Ser-8, Ser-11 to Trp-19.	Asn-2 to Lys-8,	Lys-10 to Asp-23, Arg-28 to His-51.	Pro-24 to Ala-38.							Phe-3 to Val-24.			Met-41 to Ile-46.	Arg-1 to Gln-22.			
3715	3716	3717		3718	3719		3720	3721	3722	3723	3724	3725	3726	3727	3728	3729	3730	3731
128 - 343	106 - 240	136 - 393		48 - 311 -	55 - 507		1 - 147	103 - 222	298 - 429	266 - 493	150 - 73	240 - 416	3 - 260	124 - 321	119 - 352	1 - 168	118 - 195	273 - 662
1028	1029	1030		1031	1032		1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044
530199	698315	960127		523957	917206		530095	935982	771355	959854	529272	770270	626369	507219	711399	836010	920604	787550
HTEEU52	HTEEU88	HTEEU92		HTEEV53	HTEEW73		HTEEZ95	HTEF153	HTEFM31	HTEFN15	HTEFO32	HTEFO76	HTEFP14	HTEFP50	HTEFP61	HTEFS60	HTEFU46	HTEFW55

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H0038: 2 and H0616:	H0038: 1 and H0616: 1.	H0038: 3	H0038: 3	H0038: 15, L0758: 5,	H0618: 1, H0253: 1, L0151: 1 and L0768: 1	H0038: 2	H0038: 2, L0779: 2	and L0758: 2.			H0038: 1 and H0616:			H0038: 2	H0038: 2	H0038: 1 and H0616:		H0038: 2	H0038: 2	H0038: 2	AR089: 1, AR061: 0 11q25	H0038: 2	H0038: 2
Arg-1 to Asp-7, Trp-24 to Cys-29, Ser-68 to Ile-73.	Arg-3 to Leu-10, Gln-34 to Glu-41, Ile-48 to Ser-53.	Lys-1 to Thr-6.		Val-11 to Ser-19.		Lys-7 to Tyr-19.	Lys-6 to Lys-16,	Arg-44 to Gln-51,	Asn-57 to Phe-63,	Ser-84 to Trp-89.	Gln-6 to Ser-11,	Ser-15 to Gly-31,	Ser-69 to Lys-93.	Asn-1 to Pro-9.	Thr-1 to Ala-7.	Glu-25 to Trp-31,	Lys-49 to Ser-54.			Pro-13 to Lys-25.		His-32 to Asp-39.	Asn-38 to Glu-47.
3732	3733	3734	3735	3736		3737	3738				3739			3740	3741	3742		3743	3744	3745	3746		3747
35 - 358	1 - 279	268 - 35	2 - 139	2 - 1519		190 - 306	2 - 298				190 - 468			2 - 334	210 - 407	76 - 267		144 - 335	2 - 217	3 - 143	84 - 263		1 - 183
1045	1046	1047	1048	1049		1050	1051				1052			1053	1054	1055		1056	1057	1058	1059		1060
528019	961061	842047	656077	964198		715583	503300				869296			528017	614242	099962		954115	528007	520046	675087		520037
HTEFW56 528019	HTEFW78	HTEFX53	HTEGA13	HTEGA17		HTEGA43	HTEGA47				HTEGD11			HTEGE44	HTEGF78	HTEGF95		HTEGG07	HTEGG61	HTEGK51	HTEGM38		HTEGN63

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AR089: 1, AR061: 0 H0038: 2, L0745: 2	and H0616: 1.	L0794: 15, H0616: 13,	H0038: 7, H0253: 1 and	L0758: 1.	H0038: 2		H0038: 2	H0038: 3	H0038: 2	H0038: 2, L0758: 2,	H0294: 1 and H0616: 1.	H0038: 2	H0038: 3 and L0758:	1.	H0038: 2 and L0758:	2.	H0038: 3 and H0616:	1.	H0253: 8, H0038: 2,	H0179: 1, L0151: 1 and	L0758: 1.	H0038: 2 and H0616:	1.	H0038: 8, L0758: 5,	L0794: 4, H0616: 2,	L0763: 1 and L0777: 1.	H0038: 2
Pro-12 to Tyr-21.		Lys-28 to Lys-34,	Glu-42 to Ser-48,	Ser-53 to Phe-63.	Val-3 to Ser-8,	Cys-35 to Lys-45.	Glu-8 to Ile-22.			Pro-35 to Glu-43,	Gly-52 to His-57.		Arg-1 to Thr-11.				Ala-1 to Tyr-14,	Thr-28 to Ser-60.	Asn-44 to Asp-49,	Ala-91 to Thr-97.		•					Thr-14 to Gln-20,
3748		3749			3750		3751	3752	3753	3754		3755	3756		3757		3758		3759			3760		3761			3762
3 - 884	-	134 - 433			2 - 187		23 - 196	160 - 402	131 - 352	220 - 405		155 - 355	200 - 367	•	170 - 463		2 - 205		39 - 506			3 - 98		194 - 595		,	220 - 399
1061		1062			1063		1064	1065	1066	1067		1068	1069		1070		1071		1072			1073		1074			1075
932583		923059			573865		959871	871611	527914	458520		506653	829028		716783		520041		524053			573885		764831			959888
HTEGO05		HTEGQ21			HTEGQ74		HTEGR56	HTEGR88	HTEGS16	HTEGS34		HTEGS93	HTEGT29	$\neg \neg$	HTEGT33		HTEGU13		HTEGU32			HTEGU62		HTEGU93			HTEGV08

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		,	20q13.2-q13.3118504,	118504,	139320,	139320,	139320, 602025,	004433												
	H0038: 1 and H0616:	L0758: 8, H0038: 3, H0618: 2, H0616: 2 and	H0038: 2					H0038: 3 and H0616:	2.		L0758: 5, H0038: 3,	H0618: 1, H0616: 1,	H0038: 1 and H0616:	1,	H0038: 5	H0038: 3	AR050: 13, AR051:	13, AR061: 3, AR054:	1, AR089: 1	L0/58: 5, H0616: 2
Cys-23 to Glu-31.	Tyr-12 to Phe-17, Pro-32 to Asp-39.		Ser-24 to Gln-30,	Pro-46 to Glu-59.				Gly-1 to Ile-7,	Pro-76 to Ala-82,	Asn-86 to Ile-91.	Asn-1 to Asp-9,	Pro-17 to Cys-23.	Arg-87 to Tyr-92.		Glv-23 to Lvs-29		Ser-32 to Thr-37,	Ser-161 to Cys-167.		
	3763	3764	3765					3766			3767		3768	3760	3770	3771	3772			
	80 - 418	234 - 449	1 - 243					1-351			200 - 556		2 - 388	91 - 312	90 - 350	198 - 326	719 - 84			
	1076	1077	1078					1079			1080		1081	1082	1083	1084	1085			
	822954	870240	573880					794350			/83829		917214	573849	870707	526704	973071			
٠	HTEGV60	HTEGV84	HTEGW41					HTEGW94		Time	HIEGX/4		HTEGY01	HTEGY85	\top		HTEHC47			

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and H0038: 1.	H0616: 3 and H0038:	H0038: 2		H0038: 1 and H0616: 1.	H0616: 2, H0038: 1	and L0794: 1.			H0038: 3 and L0519:	1.	H0038: 2	,				H0038: 2 and H0616: 1.	H0038: 4	H0618: 1, L0023: 1	H0038: 1, H0616: 1 and	L0758: 1.	L0758: 3, H0038: 2	מווע דייידיים
	Thr-44 to Ala-49, Pro-60 to Arg-67, Asp-83 to Lys-95.	Ala-1 to Leu-9, Thr-11 to Gly-19,	Arg-31 to Thr-39, Gln-44 to Ser-58.	Glu-57 to Pro-63.	Ala-2 to Asn-7,	Glu-47 to Ile-62,	Pro-71 to Trp-81,	GIY-83 to GIU-88.	Ser-1 to Arg-6,	GIY-10 to GIU-20.	Gin-1 to Asp-17,	Ser-51 to Arg-63,	Pro-70 to Asp-78,	Val-86 to Asn-93,	Pro-100 to Asp-105.	,	Ala-1 to Tyr-6, Ala-88 to Asm-95				His-16 to Ser-22,	* Marie 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	3773	3774		3775	3776				2///		3778					3779	3780	3781			3782	
	74 - 358	2 - 256		2 - 223	143 - 652	•		104 301	194 - 301	000	3 - 329					201 - 332	2 - 436	57 - 695			262 - 534	
	1086	1087		1088	1089			400	0601	,00,	1091					1092	1093	1094			1095	
	965998	573882		795264	784926			020210	716766	20002	/90342			_		667224	836999	933624			935984	
	нтенс60	нтенс78		HTEHE60	HTEHE67			urenezo	०/ज्ञानगा	TITETIE	птенея					HTEHF13	HTEHF66	HTEHG44			HTEHI06	

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AR089: 5, AR061: 5	H0038: 4	H0038: 2		H0038: 2 and H0616:	H0038: 3	H0038: 2	H0038: 4	H0038: 2	H0038: 2		H0038: 2				H0616: 2, H0038: 1	and T0069: 1.				,				H0038: 2 and H0616:	2.	L0758: 3, H0038: 2,	H0616: 2 and L0794: 1.	
		Arg-1 to Gly-9,	Pro-50 to Ala-56.		Lys-9 to Pro-14		Thr-16 to Met-39.		Gln-2 to Leu-8,	Asp-42 to Gly-47.	Glu-17 to Trp-27,	Leu-29 to Phe-34,	Leu-56 to Arg-61,	Asn-74 to Gly-83.	Pro-9 to Asp-16,	Gln-30 to Gln-36,	Pro-69 to Ile-74,	Val-78 to Pro-87,	Ala-99 to Lys-112,	Lys-117 to Gly-124,	Lys-130 to Val-147,	Ala-151 to Phe-156,	Lys-180 to Asp-186.	Glu-13 to Pro-27,	Leu-30 to Arg-37.	Lys-5 to Glu-14,	Arg-53 to Lys-60,	Met-77 to Gln-83.
3783		3784		3785	3786	3787	3788	3789	3790	:	3791				3792									3793		3794		
216 - 458		3 - 350		1 - 282	1 - 330	136 - 249	2 - 301	2 - 274	73 - 231	•	3 - 404				63 - 677			•						66 - 215		37 - 285		
1096		1097		1098	1099	1100	1101	1102	1103		1104				1105									1106		1107		
526687		233960		922559	870629	530749	928099	771432	573866		573859	•	-:		787521									920625		967443		
HTEHI14		HTEHIS4		HIEH1162	нтен193	HTEH164	HTEHK40	HTEHK70	HTEHK81		HTEHL96				нтено56									HTEHP02		HTEHP20		

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H0038: 3	H0038: 2	H0616: 2, H0038: 1	H0038: 2	70.00. 7					H0038: 2	AR061: 5, AR089: 2	H0038: 2	H0038: 2, H0616: 2	and L0758: 2.	H0038: 1 and H0616:		H0038: 2	AR061: 8, AR089: 3	L0780: 3, L0759: 3,	H0038: 2, L0779: 2,	73: 1, L0803: 1,	L0804: 1, L0666: 1 and	48: 1.	H0038: 1 and H0616:			H0038: 2	H0038: 3, L0740: 2	and L0748: 1.
Arg-2 to Arg-17. HG	Glu-18 to Ser-26. H0	<u> </u>	His-1 to Ser-8 HO		Asp-15 to Gln-50,	Val-54 to Ser-67,	Glu-76 to Lys-86,	Ala-90 to Arg-105.	Phe-43 to Glu-49. H0	Gly-70 to Gly-75. ARG		OH HO	and		Glu-23 to Arg-29. 1.	OH HO	Phe-32 to Asn-37, AR0		H00H	90H	L08(H0648:	Ala-1 to Gly-8, - H00		Leu-81 to Asn-86.)0H)0H	and I
3795	3796	2618	3798						3799	3800		3801		3802		3803	3804						3805	<u> </u>	┪	3806	3807	
7 - 126	210 - 434	1 - 135	3 - 320	2					3 - 197	1 - 237		61 - 234		109 - 294		76 - 276	1 - 357						2 - 466			181 - 453	2 - 163	
1108	1109	1110	1111	! ! !					1112	1113		1114		1115		1116	1117						1118			1119	1120	
531505	573853	751866	573830						573841	529280		573813		786378		870083	920610						785652			924832	760552	
HTEHP50	HTEHP60	HTEHP67	HTEHP80	,-			•		HTEHR83	HTEHS19		HTEHU20		HTEHU68		HIEHU73	HTEHV72					,	нтену86		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	нтенw03	HTEHW21	

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								16q24.1	•																		
H0616: 3, H0038: 2	aut 20130. 1.		L0758: 5, H0616: 3,	H0038: 2, L0794: 2 and	H0253: 1.	H0038: 2	H0038: 3	H0618: 2, H0038: 1	and L0783: 1.	H0038: 3	AR061: 7, AR089: 4	H0038: 4, H0616: 3,	L0747: 3, L0663: 2,	L0758: 2, H0369: 1,	H0428: 1, L0769: 1,	L0542: 1, L0809: 1,	L0666: 1, L0665: 1,	L0743: 1, L0777: 1,	L0731: 1 and S0456: 1.	H0038: 4 and H0616;	4.		H0038: 2	H0038: 3	H0038: 2	H0038: 3 and H0616:	1.
Pro-4 to Lys-14, Thr-17 to His-22	Glu-25 to Arg-49,	Pro-78 to Gly-85, Pro-120 to Phe-126.	Arg-19 to Asn-24,	Gly-30 to Gln-47.							Gln-1 to Ser-10,	Arg-18 to Thr-27,	Arg-36 to Gln-65.			,				His-16 to Ser-21,	Ser-33 to Gly-60,	Asp-87 to Glu-95.	Ser-5 to Ile-17.	Leu-41 to Arg-55.		Thr-65 to Thr-71,	Arg-92 to Glu-99.
3808			3809			3810	3811	3812		3813	3814									3815			3816	3817	3818	3819	
15-410	,		3 - 215			84 - 212	17 - 292	2 - 343		10 - 225	3 - 308		t							173 - 457			139 - 249	135 - 326	58 - 192	3-311	
1121			1122			1123	1124	1125		1126	1127									1128			1129	1130	1131	1132	
924826			772643		,	668553	527167	859130		721831	660896									958355			573828	699470	573826	520113	
HTEHX03			HTEHX32			HTEHX51	HTEHX92	HTEIA60		HTEIA80	HTEIB14		···•							HTEIF40			HTEIF68	HTEIG32	HTEIH70	HTEIJ17	

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H0038: 1, H0616: 1 and L0731: 1.	H0038: 1 and H0616:	H0038: 1 and H0616: 1.	H0038: 2 and H0032:	H0038: 2	H0038: 1 and H0616:	AR061: 1, AR089: 0	L0758: 4, L0617: 2,	L0794: 2, H0253: 1,	H0038: 1, H0616: 1,	L0789: 1 and L0779: 1.	H0038: 3	H0038: 2			Þ	H0616: 2 and H0038:	1.	H0038: 2			H0038: 1 and H0616: 1.
Ser-7 to Ile-13, Arg-21 to His-26, Met-33 to Ser-49.	Pro-38 to Gln-54.		His-8 to Ala-24, Thr-26 to Lys-33.	Thr-24 to Thr-39.	Thr-41 to Lys-46, Arg-57 to Trp-62.	Glu-13 to Thr-27.		·		-		Lys-15 to Lys-29,	Lys-36 to Thr-42,	Val-48 to Thr-55;	Gln-61 to Glu-80.	Gly-1 to Gly-6,	Leu-28 to Asn-33.	Gly-1 to Gly-6,	Pro-12 to Pro-17,	Arg-27 to Pro-40.	Asn-28 to Asn-33.
3820	3821	3822	3823	3824	3825	3826					3827	3828				3829		3830			3831
1 - 186	40 - 255	1 - 69	149 - 409	2 - 121	104 - 292	42 - 443					83 - 271	2 - 331	•			1 - 246		74 - 346			159 - 545
1133	1134	1135	1136	1137	1138	1139					1140	1141				1142		1143			1144
712520	958241	772402	967431	530454	789121	953803					523681	520045				760551		753210			839884
HTEIJ41	нтеш73	HTEIJ77	HTEIK11	HTEIK70	нтек90	HTEIL07					HTEIL48	HTEIL70				HTELL71		HTEIN68			HTEIN95

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H0038: 2 and H0616:	H0038: 3	H0038: 2	AR089: 1, AR061: 0	H0038: 2 and H0253:		H0038: 4	H0038: 1 and H0616:	-	H0616: 5, H0038: 2	and H0253: 1.			H0038: 2	H0038: 1 and H0616:	1.	AR061: 3, AR089: 1	H0038: 3	H0616: 8, L0751: 6,	L0753: 6, L0776: 4,	L0758: 4, H0038: 3,	L0759: 2, S0222: 1,	L0770: 1, L0779: 1,	L0731: 1 and L0608: 1.	L0779: 2, H0038: 1	and H0616: 1.		
His-1 to Arg-11.	Phe-27 to Glu-39.		Met-23 to Thr-30.				Lys-1 to Trp-10.		Arg-24 to Glu-38,	Arg-46 to Ser-52,	Pro-74 to Glu-80,	Pro-118 to Ser-126.	Glu-15 to Lys-29.		1	Asp-5 to Arg-13,	Thr-37 to Ser-45.	Ala-1 to Arg-9,	Thr-14 to Trp-20;	Arg-46 to His-53,	Pro-58 to Glu-67,	Tyr-80 to Pro-86,	Ile-151 to Pro-160.	Arg-16 to Ser-23,	Cys-30 to Arg-35,	Arg-51 to Arg-57,	Gly-62 to Thr-68.
3832	3833	3834	3835			3836	3837		3838				3839	3840		3841		3842						3843			
3 - 347	152 - 334	159 - 356	1 - 252			194 - 370	232 - 462		41 - 472	ı			300 - 458	305 - 547		1 - 339		2 - 712						1 - 231			
1145	1146	1147	1148			1149	1150		1151				1152	1153		1154		1155						1156			
920622	653244	573803	941155			523892	765794		928058				573775	779163		870652		922027						784657			
HTEIO02	HTEI012	HTEI028	HTEIP88			HTEIP92	HTEIQ74		HTEIR33				HTEIS65	HTEIU75		HTEIU92		HTEIV54						HTEIV86			

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H0038: 6 and H0616: 1.	H0038: 2	H0038: 2, L0758: 2, L0776: 1, L0809: 1, L0438: 1, H0658: 1 and	H0038: 2	H0038: 1 and H0616:	TTOOSO	H0038: 2	H0038: 3 and L0758:	1.			H0038: 3, H0616: 1	and L0758: 1.	H0038: 2	H0038: 2	H0038: 2	H0038: 2 and H0616:	H0616: 2 and H0038:	AR061: 4, AR089: 1	L0758: 7, L0794: 4,	H0038: 2 and L0791: 1.	H0038: 2
		His-33 to Gly-42.		Gly-43 to Ser-48.	D. 7 1- D. 20	Pro-33 to Len-49	Thr-7 to Glu-16,	Lys-24 to Asp-34,	Thr-40 to Glu-48,	Leu-52 to Lys-57.	Leu-5 to Gly-13.		1		Gly-47 to Ile-53.	Trp-14 to Glu-21, Gly-29 to Arg-36.					Lys-9 to Lys-23,
3844	3845	3846	3847	3848	2010	3043	3850				3851		3852	3853	3854	3855	3856	3857			3858
124 - 423	68 - 352	204 - 554	2 - 226	58 - 216	255	CCC - 7	188 - 460				144 - 386		115 - 348	216 - 377	3 - 269	167 - 304	156 - 377	2-319		10,	2 - 424
1157	1158	1159	1160	1161	1163	7011	1163				1164		1165	1166	1167	1168	1169	1170		1.00	121
829698	573891	836011	864251	963536	577783	667.76	955242				523764		528015	530590	870644	573774	772989	098360		070002	220049
HTEIW27	HTEIW37	HTEIX28	HTEIX85	HTEIY52	HTFIV60		HTEIY80				HTEIZ76		HTEJB20	HTEJB25	HTEJB81	HTEJC28	HTEJC95	HTEJE15		UTTETTE	птелезо

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	AR089: 21, AR061: 15	H0038: 2	H0038: 2	H0038: 2 and H0616:	1.	L0758: 12, L0794: 6,	H0038: 2, L0789: 2,	L0752: 2, L0803: 1 and L0779: 1	H0038: 1 and H0616:	provide	H0038: 2 and H0616:	1.		H0038: 2	H0038: 2	H0038: 2	H0038: 1 and H0616:	H0415: 1 and H0038:	1.	H0038: 2 and L0747:	1.		H0038: 2	H0038: 2 and H0616:	1.
Lys-30 to Lys-35.	Ser-11 to Ala-19,	Glu-24 to Leu-33, Pro-37 to Pro-45.				Gly-1 to Leu-9,	Cys-15 to Arg-26,	Pro-44 to Arg-50.	Thr-17 to Ala-24.		Thr-1 to Trp-9,	Glu-12 to Arg-17,	Pro-23 to Gln-40.		Thr-13 to Asn-19.	His-1 to Cys-7.		Gln-12 to Ser-20.		His-1 to Ser-15,	Glu-29 to Lys-46,	Pro-51 to Gln-63.	Pro-14 to Ser-31.	Lys-1 to Ser-6,	Glu-22 to Ser-28,
	3859		3860	3861	0,00	3862			3863		3864			3865	3866	3867	3868	3869		3870			3871	3872	
	122 - 643		79 - 276	148 - 384	115 177	415 - 173			115 - 294		63 - 368		· ,	1 - 126	169 - 354	2 - 418	475 - 645	1 - 534		3 - 194			1 - 450	1 - 219	
	1172		1173	1174	1176	11/2			1176		1177			1178	1179	1180	1181	1182		1183			1184	1185	
	942476		526278	774243	572742	21/2/47			952255		958389			558383	573845	914785	916481	767955		530596			676254	573823	
	HTEJF45		HTEJG24	HTEJJ43	UTEII 21	1776314			HTEJM56		HTEJN10			HTEJN49	HTEJN96	HTEJP10	HTEJP66	HTEJP71		HTEJT37			HTEJT74	HTEJU30	

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	H0038: 2	H0038: 2					H0616: 3, H0038: 2	and H0658: 1.	L0758: 4, L0779: 3 and	H0038: 2.	H0038: 2 and H0616:		H0038: 2	,	H0038: 2		H0038: 5		H0616: 2 and H0038:	1.	H0038: 2 and H0618:	1.	H0616: 3 and H0038:	2.	L0758: 5, H0616: 3	and H0038: 2.		
Ser-48 to Arg-56.	Gly-11 to Thr-17.	Glu-2 to Thr-11,	Asn-35 to Gly-41,	Thr-57 to Asn-63,	Pro-73 to Glu-88,	Pro-101 to Phe-110.	Pro-9 to Trp-16,	Trp-18 to Gly-25.	Arg-3 to Ala-10,	Asp-25 to Trp-31.	Ala-1 to Pro-7,	Arg-13 to Ser-22.	Arg-1 to Pro-12,	Trp-42 to Thr-47.	Gly-1 to Trp-6,	Pro-12 to Ser-20.	Arg-7 to Ser-12,	Trp-36 to Pro-60.	Glu-29 to Ser-36,	Cys-49 to Thr-71.	Pro-22 to His-28.		Glu-19 to Tyr-36,	Glu-48 to Lys-53.	Phe-1 to Gly-19,	Gln-21 to Glu-31,	Arg-79 to Lys-92,	Ser-135 to Leu-145.
	3873	3874					3875		3876		3877		3878		3879		3880		3881		3882		3883		3884			
	23 - 337	2 - 388					3 - 440		1 - 252		2 - 121		76 - 402		1 - 291		147 - 338		103 - 315		753 - 1043		130 - 438		1 - 594			
	1186	1187					1188		1189		1190		1191		1192		1193		1194		1195		1196		1197	•		
	694525	806395					530156		685272		523818		920925		815975		519938		974044		870084		790381		774260			
	HTEJV62	HTEJX78					HTEJY21		HTEJY27		HTEJZ26		HTEKC07		HTEKC12		HTEKD04		HTEKE41		HIEKE46		HIEKE80		HTEKF04			

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102770, 188540, 600234, 601414, 601691,	601691, 601691, 601691, 601718,	10700								•	,			
1p13	.4	, ,												
H0038: 2	,	H0038: 2	H0038: 2 and H0616:	H0038: 2	H0038: 3, L0758: 2,	H0253: 1, H0616: 1, L0794: 1, L0803: 1,	L0745: 1 and L0588: 1.	H0038: 2			H0038: 3 and H0616:	H0038: 1 and H0616:	H0038-2	H0038: 1 and H0616:
Arg-43 to Phe-48.		Pro-28 to Gly-33, Asp-35 to Leu-51, Leu-61 to Thr-69.	Glu-12 to Glu-19.		Ala-24 to Tyr-31,	Gln-38 to Lys-43.		Pro-7 to Gln-16, .	Arg-19 to Gly-32,	Pro-34 to Glu-45, Phe-56 to Leu-65.	Lys-34 to Ala-42.	Pro-8 to Thr-14.		Lys-62 to Ser-67.
3885		3886	3887	3888	3889			3890	•••		3891	3892	3893	3894
103 - 267	1	27 - 233	1 - 291	3 - 344	257 - 682			2 - 247			1 - 264	3-251	31 - 165	348 - 569
1198		1199	1200	1201	1202			1203			1204	1205	1206	1207
573750		573749	772997	917176	503039			230588			745257	723148	870627	784444
HTEKF24		HTEKF35	HTEKF68	HTEKI01	HTEKI70	-		HTEKJ48			HTEKM14	НТЕКО49		нтек085

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1.	H0038: 1 and H0616:	H0038: 2	AR061: 2, AR089: 1	L0758: 14, H0038: 5,	L0779: 4, L0794: 2 and	H0616: 1.			H0618: 3, H0253: 1	and H0038: 1.		H0038: 1 and H0616:	1.	H0038: 1 and H0616:	11.	L0758: 10, H0038: 3,	L0794: 2, H0618: 1,	H0253: 1 and H0616: 1.	H0038: 2 and L0758:	1.	H0038: 2	H0038: 2	,	H0616: 4, L0803: 1	and L0731: 1.	H0616: 3 and L0519: 2.
			Pro-9 to Arg-14,	Phe-34 to Ile-39,	Arg-41 to Lys-47,	Leu-49 to Gly-55,	Lys-104 to Lys-110,	Asp-119 to Gly-124.	Val-1 to Val-8,	Arg-36 to Pro-41,	Thr-50 to Leu-55.	Ser-9 to Ser-17,	Leu-48 to Cys-54.	Gly-46 to Glu-58.		Glu-37 to Asp-46.			4			Ile-9 to Asn-20,	Ala-22 to Asp-29.	Lys-8 to Lys-14.		
	3895	3896	3897						3898			3899		3900		3901			3902		3903	3904		3905		3906
	139 - 318	290 - 427	3 - 569			1			113 - 346	,		166 - 399		87 - 263		118 - 375			108 - 257		68 - 259	98 - 280		49 - 195		165 - 536
	1208	1209	1210						1211			1212		1213		1214			1215		1216	1217		1218		1219
	870555	529273	846714						506651			767658		935945		928826	_		920927		573700	524054		774268		934272
	HTEKR75	HTEKS15	HTEKS20						HTEKS21	-		HTEKS76		HTEKX06		HTEKX08			HTEKX28		HTEKX70	HTEKZ50		HTELA50		HTELD47

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H0616: 2	H0616: 3	H0616: 5	H0038: 1 and H0616:	H0616: 2 and H0038.	1. 1.	•	H0616: 2	H0038: 1, H0616: 1	and L0745: 1.	H0038: 1 and H0616:	1.	H0616: 2 and L0749:	H0616: 4 and I 0758	3.	•	H0038: 1 and H0616:	H0616: 2	H0616: 2	H0616: 4	H0616: 2	H0616: 3 and L0779:	H0038-7 and H0616.		H0616: 11 and H0038:
Arg-1 to Ser-6.		Ala-8 to Ser-13.	Pro-2 to Asp-7.	Val-17 to Val-23	Phe-34 to Tyr-46,	Thr-62 to His-67.	Val-1 to Thr-12.	Gln-9 to His-21.		Glu-27 to Thr-34.			Asn-1 to Gln-7.	Phe-27 to Gly-38,	Pro-61 to Gly-68.		Arg-21 to Phe-28.	,	,		Asn-56 to Ser-66.	Asn-19 to I vs-24	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Leu-21 to Gly-26,
3907	8068	3909	3910	3911			3912	3913		3914		3915	3916			3917	3918	3919	3920	3921	3922	3923		3924
79 - 267	157 - 438	260 - 475	279 - 455	1 - 318	2	1	3 - 107	351 - 542		421 - 588		318 - 554	86 - 361			3 - 449	9-239	107 - 349	181 - 294	394 - 648	357 - 626	75 - 302		117 - 434
1220	1221	1222	1223	1224			1225	1226		1227		1228	1229			1230	1231	1232	1233	1234	1235	1236		1237
779315	963563	791743	757740	870621			773018	766462		923071		806403	966134			794339	870552	923055	783824	952267	952269	786268		926910
HTELD82	HTELE10	HTELE41	HTELG47	HTELG57			HTELG80	HTELH44		HTELI03		HTELISI	HTELJ89			HTELK14	HTELK50	HTELK68	HTELL48		HTELL90	HTELM89		HTELO20

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	H0616: 4	H0038: 1 and H0616:					H0616: 2	H0616: 2, H0038: 1	and L0754: 1.			H0616: 3	H0616: 2 and H0038:	<u>.</u>	H0616: 2				H0616: 4, L0774: 2,	H0618: 1, L0665: 1 and	L0747: 1.		H0616: 4	H0616: 2	H0616: 2 and L0758:	-	H0616: 2
His-101 to Trp-106.	Ser-21 to Ser-29,	Lys-1 to Cys-7,	Lys-16 to Glu-21,	Ser-23 to Thr-37,	Pro-40 to Ser-47,	Glu-49 to Arg-59.	Asn-6 to Ser-12.	Pro-1 to Val-16,	Lys-22 to Asp-30,	Asn-47 to Ala-61,	Arg-89 to Leu-94.		Tyr-1 to Leu-7,	Phe-51 to Asp-60.	Arg-29 to Leu-40,	Gly-50 to Gln-55,	Thr-73 to Ile-83,	Lys-90 to Lys-95.	Thr-7 to Asn-12,	Leu-20 to Ile-29,	Ser-54 to Ser-64,	Met-66 to Gly-77.	Lys-50 to Glu-55.	Lys-1 to Lys-9.	Lys-57 to Gly-63.		Asp-1 to Trp-11,
	3925	3926					3927	3928				3929	3930		3931				3932				3933	3934	3935		3936
	2 - 166	56 - 232					1 - 204	3 - 470				97 - 462	36 - 344	ļ	2 - 451				2 - 235				3 - 521	3 - 173	37 - 240		106 - 270
	1238	1239					1240	1241				1242	1243		1244				1245				1246	1247	1248		1249
	931120	761806					934344	921621				922634	761768		826531				761598				780619	915339	934302		963576
	HTELO51	HTELO73					HTEL093	HTELP27				HTELQ41	HTELQ87		HTELR90				HTELT72				HTELT83	HTELU01	HTELV06	- 1	HTELV10

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	L0758: 16, H0038: 1 and H0616: 1.	H0038: 1 and H0616:	1.		AR089: 7, AR061: 6	H0616: 4, H0038: 1,	L0745: 1 and L0779: 1.			H0616: 4, H0038: 2,	L0768: 1 and L0779: 1.	H0616: 2 and L0758:	1	H0616: 2	H0038: 1 and H0616:	1.	H0616: 2	H0038: 1 and H0616:	1.	H0616: 2	AR089: 19, AR061: 13 9q31	H0618: 14, H0253: 12,	H0038: 11, H0616: 2,	L0794: 1, L0779: 1 and	L0758: 1.			
Ser-49 to Lys-55.	Thr-17 to Leu-22.	Gly-2 to Ile-19,	Lys-22 to Ala-31,	Asp-49 to Asn-56.	Thr-5 to Ser-11,	Asp-78 to His-85,	Ser-153 to Ser-162,	Glu-221 to Ala-234,	Gly-247 to Glu-252.	Ala-21 to Trp-26,	Arg-64 to Val-83.	Cys-2 to Glu-9.		Gln-3 to Gln-13.			Thr-18 to Gly-25.	Lys-32 to His-41.		Ser-46 to Thr-53.	Gly-23 to Asn-30,	Arg-45 to Lys-50.						
	268	3938			3939					3940		3941		3942	3943		3944	3945		3946	3947							
	172 - 303	2 - 448			1-927					3 - 293	-	71 - 271		3 - 302	25 - 117		140 - 283	94 - 312		171 - 353	22 - 1167							
	1250	1251			1252					1253		1254		1255	1256		1257	1258	10.0	1259	1260							
	796832	870615			910946					952241		870596		963506	761599		764834	952268	107701	/80474	911666							
	HTELV26	HTELV43		- 1	HTELV86	-				HTELW29		HTELW62		HTELX52	HTELX72		HTELY64	HTELZ07	7002 121211		HTEMA54							

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	H0616: 2	H0616: 3			H0616: 3	,		H0038: 1 and H0616:	1.	L0758: 9, L0794: 3,	H0038: 2, H0616: 2,	L0790: 1 and L0779: 1.	H0253: 3, H0618: 2	and H0616: 1.		H0038: 1 and H0616:	H0616: 2 and L0758:	2.		,	H0038: 2 and H0616:	2.	H0616: 2	H0616: 6 and L0758:	H0616: 4, H0038: 1
	Thr-6 to Lys-23.	Tyr-4 to Tyr-11,	Ala-20 to Ser-28,	Val-44 to Arg-54.	Leu-25 to Asn-32,	Ala-49 to Phe-56,	Arg-60 to Lys-69.			Lys-49 to Lys-56.			Gln-16 to Gly-27,	Glu-59 to Gly-65,	Ser-107 to Arg-113.	Gln-15 to Arg-21.	Gly-1 to Glu-8.	Glu-16 to Ser-22,	Asp-43 to Gly-49,	His-65 to Met-70,	Ala-20 to Thr-44.				
	3948	3949			3950			3951		3952			3953			3954	3955				3956		3957	3958	3959
	75 - 143	103 - 342			141 - 371		-	1 - 306		2 - 292	ı		1 - 453	•		58 - 240	1 - 270				2-310		3 - 116	248 - 496	388 - 570
	1261	1262			1263			1264		1265			1266			1267	1268				1269		1270	1271	1272
	827055	870614			82028			761602		775593			924727			848193	963546				761783		988386	786377	963531
	HTEMB26	HTEMB28			HTEMB34			HTEMB72		HTEMB83			HTEMC18			HTEMC75	HTEMD10				HTEMD73		HTEMF08	HTEMJ34	HTEMJ54

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and L0748: 1.	H0038: 1 and H0616: 1.	H0616: 5, H0038: 2,	H0616: 2	H0038: 1 and H0616:	I.	H0616: 2 and H0038: 1.	H0616: 3		H0616: 3 and H0038:	1.	H0038: 10, L0758: 7,	L0768: 6, H0253: 4,	H0616: 2, L0772: 1,	L0773: 1, L0779: 1 and	L0731: 1.			AR089: 17, AR061: 13	L0794: 2, L0752: 2,	H0616: 1, L0763: 1,	L0766: 1, L0664: 1,	H0670: 1 and L0758: 1.	H0038: 1, H0616: 1	and L0758: 1.		H0038: 1 and H0616:
	Pro-11 to Gly-21, Pro-65 to Ser-71.	Pro-32 to Gly-40, His-54 to Glu-74.	Tyr-16 to Ser-25.				Phe-7 to Glu-12,	Leu-22 to 1yr-28.	Gln-29 to Gly-34.		Arg-8 to Ser-15,	Ser-21 to Trp-40,	Glu-63 to Trp-74,	Ser-76 to Ser-81,	Asp-83 to Asp-96,	Glu-125 to Ser-131,	Leu-198 to Leu-206.	Ser-7 to Asp-13,	Leu-49 to Asn-54,	His-62 to Tyr-68.			Arg-1 to Arg-8,	Leu-44 to Ala-50,	Ser-58 to Ile-68.	Ser-16 to His-24.
	3960	3961	3962	3963	7700	3904	3965		3966		3967							3968					3969			3970
	45 - 359	353 - 631	10 - 96	54 - 251	, 210	2-319	166 - 276		1 - 159		3 - 629							2 - 340					102 - 371			45 - 203
	1273	1274	1275	1276	1077	1771	1278		1279		1280							1281					1282			1283
	923066	989888	958374	789113	000624	990034	771434		767863		932319							909280					963527			832506
	HTEMK03	HTEMM80	HTEMN08	HTEMN95	HTEMOIA	n i ElviO 14	HTEMO85		HTEMP48		HTEMP49							HTEMR65					HTEMS10			HTEMS48

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1	L0758: 4, H0038: 1, H0616: 1 and L0779: 1.		L0758: 3 and H0616:	H0616: 2, L0749: 2	and H0038: 1.	H0616: 3	AR061: 6, AR089: 3 H0616: 2 and H0038:	1.	H0038: 1, H0616: 1	H0616: 2	H0038: 1 and H0616:	1.	H0616: 3	H0616: 2 and L0109:			H0038: 1 and H0616:		H0038: 1, H0616: 1 and S0152: 1.
	Ile-14 to Asp-22, Pro-28 to Gln-43, Pro-49 to Arg-56,	Thr-81 to Glu-89.	Glu-36 to Val-53.	Arg-21 to Pro-26.		Arg-18 to Lys-24, Thr-29 to Ile-34.	Gly-82 to Lys-89.	•	Arg-32 to Gly-37.		Pro-20 to Ala-32,	Arg-46 to Val-51.	Ser-29 to Val-39.	Gln-29 to Leu-34,	Arg-36 to Leu-44,	Glu-58 to Ser-64, - Ser 67 to Dro 85	Ala-6 to Ala-12.	•	Glu-69 to Leu-79.
	3971		3972	3973		3974	3975		3976	3977	3978		3979	3980			3981	_1	3982
	2 - 268		2 - 160	112 - 273		43 - 189	23 - 514		46 231	162 - 377	1 - 294		24 - 338	243 - 497			380 - 574		111 - 347
	1284		1285	1286	100,	1287	1288		1289	1290	1291		1292	1293			1294		1295
	934338		922999	789623	0.000	870618	913795		870662	927021	870601		923050	775544			958378		795316
	HTEMT06		HTEMT89	HTEMU17	TIME STATE	HIEMUS4	HTEMX92		HTEMY30	HTEMZ04	HTENA22		HTENB03	HTENC22			HTENF08		HIENF95

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H0253: 3, H0038: 1 and H0616: 1.	H0038: 1 and H0616: 1.	H0616: 2, H0038: 1 and L0758: 1.	AR089: 30, AR061: 13	L0/94: 25, L0/58: 4, H0038: 3 H0616: 2	L0779: 2, L0768: 1 and	L0790: 1.		H0038: 7, H0124: 1,	H0040: 1, H0616: 1 and	LU1/9: 1.	H0253: 1 and H0616: 11q13.2-q13.3 133780,			H0616: 3 and H0618:	1.	H0038: 4, H0616: 3,	L0758: 3 and L0779: 1.			H0616: 6, H0618: 3,	H0253: 3 and H0038: 3.	
Asn-2 to Glu-14, Pro-17 to Lys-27, Gly-42 to Ser-59, Cys-70 to Lys-81.	His-7 to Ser-12.	Ile-28 to Ser-36.	Asn-17 to Asn-30,	Giu-5 / to Lys-56, Asp-64 to Gin-69.	Gly-77 to Ser-95,	Lys-109 to Asn-114,	Arg-158 to Ser-183.	Thr-6 to Arg-17.			Thr-17 to Ala-25,	Pro-40 to Glu-46,	Asn-76 to Glu-81, Gln-90 to Lys-104	Gly-23 to Pro-32.	•	Arg-15 to Leu-21,	Ala-29 to Glu-34,	Pro-40 to Trp-49,	Ser-82 to Ala-97.	Gly-29 to Glu-39,	Gly-105 to Lys-117,	GIII-133 to Leu-142,
3983	3984	3985	3986					3987			3988			3989		3990		•		3991		
3 - 308	1 - 102	182 - 436	41 - 589		,			1 - 948			3 - 443			249 - 566		192 - 509				76 - 1467		
1296	1297	1298	1299					1300			1301			1302		1303				1304		
840151	967432	784798	917213					968135			767838			835851		844557				917032		
HTENG66 840151	HTENG93	HTENH86	HTENI58					HTENJ28			HTENJ76			HTENK06		HTENK69			,	HTEN012		

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				H0038: 1 and H0616:	1.		H0616: 17 and L0758:	1.	H0038: 1 and H0616:	-		H0038: 2, H0616: 1	and L0758: 1.	H0038: 1 and H0616:		H0038: 2 and H0616:	H0328: 1, H0038: 1	and H0616: 1.		,		H0038: 1, H0616: 1	and L0748: 1.				
Pro-180 to Ser-186,	Gln-202 to Ser-207,	Gln-214 to Asp-220,	Gly-246 to Thr-255.	Asn-1 to Glu-6,	Gln-9 to Gly-15,	Gln-18 to Arg-40.	Arg-13 to Leu-18.		Asp-16 to Leu-22,	Met-37 to Thr-42,	Glu-55 to Gly-68.	His-23 to Ser-34,	His-77 to Glu-82.	Gly-40 to Ala-45,	Arg-65 to Thr-75.	Gly-1 to Pro-15.	Glu-49 to Ala-55,	Cys-57 to Ser-85,	Ser-90 to Glu-97,	Ile-108 to Lys-114,	Val-117 to Asn-127.	Met-2 to Asn-16,		Ser-54 to His-60,	Pro-63 to Ser-69,	Leu-101 to Gln-118,	Gly-139 to Pro-146.
				3992			3993		3994			3995		3996		3997	3998					3999					
				190 - 618			17 - 208		2 - 496		-	1 - 654		24 - 380		1 - 456	201 - 659					3 - 440					
				1305			1306		1307			1308		1309		1310	1311					1312					
				969213			787535		775387			928244		963530		764828	920834					785996					·
				HTENO50			HTENP54		HTENP80			HTENQ05		HTENR10 963530		HTENR74	HTENR93					HTENS22					

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H0616: 5, H0038: 3, H0253: 1, L0769: 1, L0794: 1, H0521: 1, L0748: 1, L0779: 1 and L0758: 1.	H0616: 2 and L0517:	AR061: 7, AR089: 3	H0616: 5 and H0038:	•			1	H0038: 2, H0616: 2	and L0758: 2.	L0758: 10, L0439: 6,	H0616: 2, L0803: 2,	L0756: 2, L0455: 1,	H0038: 1 and L0438: 1.	H0038: 1 and H0616:	1.	H0616: 3							
	Trp-1 to Gln-10.	Gly-5 to Arg-10,	Arg-18 to Ser-24, Glu-35 to Asn-42	Lys-72 to Gln-82,	Tyr-90 to Lys-96,	Lys-112 to Arg-123,	Asp-141 to Met-146.	Arg-6 to Asp-13,	Lys-70 to Trp-76.	Glu-1 to Lys-11.		i		Ala-17 to Ser-22.		Gln-1 to Ser-19,	Glu-29 to Lys-35,	Leu-58 to Phe-68,	Cys-100 to Arg-107,	Cys-113 to Cys-119,	Phe-124 to Asn-139,	Leu-157 to Glu-163,	Ile-174 to Ile-180,
4000	4001	4002						4003		4004				4005	·	4006				_			-
226 - 756	387 - 725	99 - 617						1 - 243		168 - 359				383 - 553		2 - 1009	•						
1313	1314	1315						1316		1317				1318		1319							
784936	870515	944416						907717		771409				870587		884043							
HTENS43 784936	HTENS91	HTENV57						HTENW53		HTENX77				HTENY21		HTENY35						•	

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								Xp22 300000, 300066, 300077,
	L0779: 9, L0758: 9, L0665: 8, H0616: 4, L0663: 4, H0038: 3, L0755: 3, L0717: 1, L0768: 1, L0666: 1, H0659: 1, H0670: 1,	H0038: 1 and H0616:	H0616: 2 and H0038: 1.	H0038: 1 and H0616: 1.	H0616: 2 and H0038: 1.	H0616: 2 and H0038:	H0038: 1 and H0616: 1.	AR061: 7, AR089: 3 5 H0616: 3
Pro-195 to Pro-204, Gly-228 to Glu-250, Ile-260 to Asp-266, Thr-273 to His-279, Cys-281 to Gly-291.		Gln-24 to Glu-34, Ala-58 to Ser-64.	Met-56 to Pro-67, Ser-82 to Tyr-87, Pro-111 to Ala-121.	Arg-20 to Gln-27, Arg-37 to His-42, Pro-46 to His-55.	Tyr-3 to Cys-9, Thr-20 to Ile-25, Gly-60 to Arg-67.		Gly-2 to Glu-13, Val-40 to Cys-79.	Val-17 to Arg-23, Tyr-28 to Ser-34, Thr-41 to Cys-47.
	4007	4008	4009	4010	4011	4012	4013	4014
	203 - 454	102 - 377	2 - 400	24 - 329	129 - 428	247 - 411	258 - 632	2 - 262
	1320	1321	1322	1323	1324	1325	1326	1327
	917185	870591	773024	787516	812307	918635	793202	847224
	HTENZ16	HTENZ33	HTENZ72	HTEOA90	HTEOD34	HTEOE61	HTEOF31	HTEOF80

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300310, 301220, 302350, 304050, 304110, 309530, 309530,	04071				1.							•				
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	H0663: 1, H0644: 1,	H0616: 2	AR089: 36, AR061: 21	H0038: 7, H0618: 1, H0253: 1 and H0616: 1.			H0038: 1 and H0616:			H0616: 2 and H0038:	AR061: 6, AR089: 3	•	H0616: 2, L0794: 2,	L0747: 2, L0803: 1,	.0789: 1 and L0590: 1.	H0038: 2 and H0616:
	Ĥ	Arg-31 to Asp-37.				Lys-106 to Asp-113.	•	1 yr-12 to Giy-29, 1. Lvs-34 to Ala-64.	Lys-77 to Glu-91.		Pro-27 to Ala-35. AI		H	<u>o</u>	10	H H
	4015	4016	4017			\exists	4018			4019	4020			···		4021
	113 - 364	27 - 164 -	3 - 410				11 - 295			121 - 408	2 - 520					107 - 271
	1328	1329	1330				1331			1332	1333					1334
	768583	918571	870575				810333	•		918590	815852					954114
	HTEOF85	HTEOF91	HTEOI36			COLO MALL	H1E0153	-		HTEOK02	HTEON29				TAX COLUMN	HIEON67

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H0616: 22	L0766: 5, L0803: 3, H0616: 2, L0777: 2,	L0470: 1, L0761: 1,	L0764: 1, L0804: 1,	L0805: 1, L0776: 1,	L0789: 1 and L0750: 1.	H0616: 2		AR089: 17, AR061: 14	H0616: 2	H0618: 3, H0616: 2	and H0253: 1.	1			L0758: 9, H0038: 1,	H0616: 1 and S0042: 1.	H0616: 3, L0747: 2,	L0794: 1, L0803: 1 and	L0779: 1.	H0616: 3, L0758: 2,	L0794: 1 and L0366: 1.	H0616: 2 and H0038:	l.	H0616: 4, L0779: 1	and L0758: 1.	H0616: 2	H0616: 4, L0756: 2	and H0038: 1.
	Pro-14 to Phe-23, Lys-111 to Lys-133.	•				Ser-30 to His-36,	Arg-54 to Arg-59.	Gly-38 to Val-44.		Arg-1 to Ala-13,	Arg-99 to Arg-104,	Thr-117 to Gln-124,	Asn-132 to Gln-137,	Thr-145 to His-155.	Tyr-34 to Glu-43.	-	Pro-77 to Ser-83.			Asp-35 to Gly-40.		Leu-2 to Gly-11.		Fro-10 to Asn-16,	Asn-38 to Arg-44.	Cys-5 to Thr-14.	His-7 to Gly-17,	Gly-25 to Leu-36.
4022	4023					4024		4025		4026					4027		4028			4029		4030	1007	4031		4032	4033	
320 - 529	22 - 438					3 - 266		2 - 445		2 - 490					147 - 605		43 - 393			204 - 515		161 - 568	140 220	140 - 328		126 - 497	2 - 193	
1335	1336					1337	ļ	1338		1339					1340		1341			1342		1343	1244	1344		1345	1346	
915138	870532					918475		870566		89696					958391		872923			772949		782248	ACOUST	10/07		883021	933299	
HTEOU45	HTEOV90		•			HTEOW02		HTEOW39		HTEOW85					HTEPA08		HTEPA27			HTEPB66		HTEPB84	HTEDC76	nierc/0		HTEPC87	HTEPD06	

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AR061: 5, AR089: 2 H0369: 1, H0038: 1, H0616: 1, L0593: 1 and L0595: 1.	L0752: 3, H0618: 1, H0616: 1, L0769: 1, L0803: 1, L0789: 1, L0439: 1, L0758: 1 and L0698: 1.	H0616: 3 and H0038:	H0616: 2 and L0758: 1.	H0616: 2 H0038: 1 and H0616: 1.	H0616: 5, L0758: 5 and H0038: 1.	AR061: 25, AR089: 5 L0758: 3, H0616: 2, H0038: 1 and L0779: 1	H0616: 2	H0616: 2 and H0038:
Asn-30 to Lys-43, Pro-58 to Glu-65, Arg-77 to Asn-85.	Gln-1 to Asn-9, Pro-14 to Leu-20, Leu-42 to Gly-47, Gln-56 to Arg-61, Pro-109 to Ser-114, Lys-119 to Thr-131.	Thr-2 to Ser-12, Arg-60 to Leu-67, Ala-72 to Thr-77, Pro-82 to Lys-91, Gly-96 to Ser-101, Glu-110 to Pro-118, Gln-124 to Leu-129, Gln-132 to Ser-138.	Arg-1 to Asn-11, His-40 to Arg-45.	Arg-1 to Ser-9.	Gly-5 to Pro-15, Ser-23 to His-32.	Pro-8 to Gly-26, Cys-54 to Cys-66, Gly-73 to His-85.	I on 12 to Ben 17	Leu-12 to Pro-1/,
4034	4035	4036	4037	4038	4040	4041	4042	4040
2 - 640	3 - 395	25 - 477	305 - 1216	37 - 345 27 - 122	209 - 631	1 - 735	171 - 326	0-211
1347	. 1348	1349	1350	1351	1353	1354	1355	1220
932576	812303	915301	956200	918599	939675	870561	806471	776677
HTEPE28	HTEPG15	НТБ Р Н01			HTEPK40	HTEPM33	HTEPM52	٦.

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1.		H0616: 2, L0779: 2,	110036. 1 and LU/36: 1.	H0038: 1 and H0616:	1.	H0616: 3 and H0038:			H0616: 4 and H0038:	3.			i.			H0038: 1 and H0616:	1.		H0038: 2 and H0616:	2.	H0616: 2	H0616: 2 and H0038:	H0616: 2	AR061: 6, AR089: 2	H0616: 3, L0758: 2,	L0768: 1, L0792: 1 and	.0779: 1.	AR089: 11, AR061: 2
Pro-24 to Gly-29,	Ser-34 to Gly-39.	Asn-6 to Asp-16.		Gly-33 to Gly-38,	Gln-61 to His-66.	Ala-35 to Glu-41,	Ile-54 to Glu-74,	Lys-80 to Leu-87.	Gln-8 to Cys-17,	Cys-20 to Gln-26,	Thr-61 to Lys-68,	His-75 to Gly-83,	Asn-88 to Gln-104,	Pro-118 to Leu-126,	Gln-131 to Glu-138.	Lys-86 to Lys-91,	Lys-107 to Lys-139,	Leu-155 to Asn-162.			Gly-42 to Gly-47.	Pro-66 to Ser-74.		Ser-9 to Ser-17,	Phe-21 to Leu-45.			Ser-10 to Gly-15,
		4044		4045		4046			4047							4048			4049		4050	4051	4052	4053				4054
	-	1 - 192		1 - 372		12 - 641			3 - 866						(3 - 545			1 - 168		2 - 238	42 - 518	533 - 670	1 - 471				91 - 699
		1357	0.00	1358		1359			1360							1361			1362		1363	1364	1365	1366				1367
		836572	2002	107/16		947107			785803							698062			787499		870509	870637	915134	917406				849028
		HTEPP23	COURT	HIEPP29		HTEPP30			HTEPP32			_				HTEPP92			HTEPR90		HTEPT25	HTEPT75	HTEPU01	HTEPV02				HTEPX32

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H0038: 6, H0616: 6,	L0794: 4, L0768: 1 and	L0758: 1.		H0616: 2 and L0758:	2.	H0618: 1 and H0616:	1.	H0616: 4	1 0200 7 1000 1	L0/58: /, H0618: 1,	H0616: 1, L0794: 1 and	LU//9: 1.	H0616: 2 and H0038:	Ι.	H0038: 2 and H0616:	1.	•	H0616: 3 and H0038:	1		H0616: 2, L0803: 1	and L0774: 1.		H0038: 2 and H0616:	H0038-1 and H0616.		_	H0038: 1 and H0616:
Pro-20 to Ser-27,	Glu-34 to Gly-41,	Ala-45 to Trp-50,	Pro-79 to Gly-88.	Pro-9 to Ser-19,	Pro-51 to Asp-57.	Lys-2 to Gly-11.		Pro-30 to Cys-35, Thr-41 to Ser-47	Mat 11 4- T 20	WEI-11 to Lys-26.			Thr-39 to Asn-45.		His-16 to Ser-21,	Val-30 to Asn-40,	Leu-54 to Pro-64.	Pro-31 to Glu-45,	Ala-52 to Lys-58,	Met-78 to Lys-89.	Thr-1 to Asn-6,		Arg-21 to Asn-2/.		Gin-4 to Ser-0	Ala-23 to Glu-29	Phe-65 to Ser-71.	
				4055		4056		4057	4050	4000			4059		4060			4061			4062			4063	4064			4065
				274 - 543		50 - 502	1	2 - 151	7 400	024 - 7			133 - 321		205 - 633			10 - 426			189 - 422			158 - 424	90 - 308			1 - 144
				1368		1369		1370	1371	17/1	<u></u>		1372		1373			1374			1375			1376	1377			1378
				963433		888470		922941	915108	27777			918579		958354			881004			853971			870525	806495			806504
				HTEPZ10		HTEPZ18		нтеовоз	HTFOD40	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			HTEQD69		HIEQE87			HTEQG56			HTEQI54			HTEQJ14	HTEQJ42	,		HTEQ081

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1.	H0616: 4	H0616: 3 and L0758:	AR089: 10, AR061: 3	H0253: 8, H0038: 4,	H0616: 3, H0618: 2,	L0758: 2 and L0779: 1.	L0758: 6, H0616: 2	and L0794: 2.	L0758: 3, H0038: 1	and H0616: 1.	H0253: 2	H0618: 4 and H0253:	3.	H0253: 2	H0253: 3	•	H0038: 164, H0253:	42, H0150: 2, H0549: 1	and S0042: 1.	L0758: 4, H0253: 2,	H0616: 2, L0649: 1,	L0666: 1, L0663: 1 and	L0780: 1.	L0758: 5, H0253: 4,	L0794: 4, H0618: 2,	H0038: 1, H0616: 1 and	L0768: 1.
	Lys-1 to Phe-10.	Asp-5 to Asp-14.	Thr-17 to Leu-22.				Asn-83 to Ser-88.				Asp-32 to Gln-37.	Ala-6 to Gly-25.		Gly-42 to Arg-47.	Leu-2 to Cys-8,	Gly-32 to Arg-39.	Ala-1 to Arg-6,	Met-14 to Thr-32.	*	Ser-5 to Asn-12,	Leu-63 to Gly-71.			Phe-12 to Leu-22,	Ser-26 to Tyr-32,	Phe-53 to Asn-59,	Tyr-68 to Leu-73,
	4066	4067	4068				4069		4070		4071	4072		4073	4074		4075			4076				4077			
	1 - 141	254 - 24	108 - 590			İ	77 - 388		193 - 1311	•	3 - 281	3 - 266		1 - 333	2 - 163		23 - 154	-		2 - 298		•		86 - 529			
	1379	1380	1381				1382		1383		1384	1385		1386	1387		1388			1389				1390			
	966141	932301	939641				966486		924799		530577	530579		575019	679414		546469			761758				421550			
	HTEQP45	НТЕQQ82	HTEQR15				HTEQR94		HTEQT63		HTLAB19	HTLAB44		HTLAB73	HTLAC81		HTLAC87			HTLAD21				HTLAD38			

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										9q31-q34	1								-		_				,			
	H0253: 2 and L0777:	1.	H0253: 3	H0253: 2			H0253: 1, H0038: 1	and H0616: 1.		L0366: 3, H0618: 2,	H0253: 1 and L0754: 1.		•															H0616: 2, H0618: 1 and H0253: 1.
Gln-96 to Gly-102.	Pro-32 to Thr-48,	Arg-102 to Pro-109.	Ser-39 to Gly-45.	Ala-2 to Pro-8,	Pro-57 to Trp-67,	Cys-69 to Gly-74.	Glu-6 to Thr-15,	Ser-21 to His-34,	Arg-53 to Ala-64.	Ser-1 to Gly-8,	Thr-15 to Thr-23,	Pro-45 to Pro-53.					,	ı										Glu-21 to Gln-27, Ser-30 to Lys-37.
	4078		4079	4080			4081			4082																		4083
	1 - 444		36 - 221	2 - 331			2 - 232			209 - 481					ı													3 - 590
	1391		1392	1393			1394			1395																		1396
	836390	0,000	530742	206739			967408			780116																	27,710	9/1661
	HTLAF84	TITE AXION	HILAV6/	HTLBD12			HTLBE55			HTLBE82																		H1LBF14

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H0253: 2	AR061: 373. AR089:	188	H0253: 3, H0618: 2,	H0038: 2, H0616: 1 and	L0758: 1.	L0758: 5, H0616: 3,	H0038: 2, L0794: 2 and	H0253: 1.	H0253: 2	H0253: 1, L0794: 1,	L0766: 1, L0803: 1,	H0670: 1 and L0747: 1.	AR061: 5, AR089: 5	H0253: 4, H0618: 3,	L0758: 3, L0779: 2 and	L0794: 1.	H0253: 2	L0758: 4, L0794: 2,	L0617: 1, H0253: 1,	H0038: 1, L0789: 1 and	L0779: 1.	H0253: 2	L0758: 11, H0253: 3,	H0550: 1 and H0616: 1.					
						Gly-1 to Ile-6,	Gly-12 to Ile-27.		Leu-58 to Arg-68.	Arg-9 to Cys-18,	Arg-34 to Gly-40,	Glu-47 to Asp-54.	Arg-1 to Arg-6,	Ala-49 to Tyr-58,	Pro-67 to Lys-80,	Ser-92 to Trp-108.	His-1 to Gly-6.	1				Ser-6 to Ser-11.	Asn-1 to Glu-6,	Gly-17 to His-28,	Glu-33 to Ser-39,	Pro-41 to Lys-51,	Pro-56 to Glu-69,	Ser-83 to Lys-90,	Thr-97 to Ser-103,
4084	4085					4086			4087	4088			4089				4090	4091				4092	4093						
96 - 200	38 - 1096		,			2-112			2 - 277	2 - 301	,		134 - 934	-	ı		1 - 162	17 - 286				2 - 271	72 - 497	_		<u>.</u>			
1397	1398					1399			1400	1401			1402		٠		1403	1404				1405	1406						
527942	559116	·				772644			767667	682208			908832				572959	815897				828115	780842						
HTLBG83	HTLCA95					HTLCG77			П	HTLCY27			HTLCY54				HTLCZ48	HTLCZ96				\neg	HTLDE53						

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	AR089: 25, AR061: 11 H0253: 2 and H0618:	H0253: 2	AR061: 7, AR089: 3	L0758: 6, L0789: 2,	L0779: 2, H0253: 1,	L0809: 1, L0666: 1 and	H0648: 1.	H0253: 2	H0553: 3 and H0253:	H0618: 1 and H0253.	1.	H0253: 2, H0188: 1	and H0038: 1.	•	H0253: 3 and H0618:	2.		•		H0618: 11, H0253: 10,	H0616: 6, L0758: 5,	H0038: 4, L0768: 2 and	H0090: 1.	AR061: 7, AR089: 2,	2, AR051:	AR050: 2
Arg-121 to Asp-131.	Glu-15 to Leu-20, Leu-24 to Ser-47.		Pro-7 to Gly-13.					Gly-1 to Arg-10.				Met-12 to Asp-18,	Tyr-20 to Gly-31,	Lys-38 to Trp-47.	Gly-1 to Gly-9,	Gln-15 to Arg-20,	Cys-53 to Arg-59,	Arg-84 to Glu-89,	Pro-105 to Glu-113.	Ser-3 to Ser-16.						Asp-34 to Pro-40,
	4094	4095	4096			٠		4097	4098	4099		4100			4101					4102				4103		
	83 - 427	86 - 298	3 - 599		1			1 - 192	3 - 431	248 - 472		90 - 458			1 - 573					1 - 834		•		2 - 1171		
	1407	1408	1409					1410	1411	1412		1413			1414					1415				1416	-	
	908613	616724	909254					911645	839795	835850	_	915223			920546					870057				891322	- ,	
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H0618: 5, L0758: 4,	H0038: 3, H0253: 2,	H0553: 1, H0616: 1,	L0789: 1, L0663: 1 and	L0779: 1.					AR089: 11, AR061: 7	H0253: 2, L0439: 1	and L0599: 1.	H0253: 2 and H0618:	1.	7		and I 0758: 1	mid ±0/20: 1:						1	H0253: 1 and S0152: 1.		H0618: 2 and H0253:	-			H0038: 2 and H0253:
Ser-45 to Ser-52,	Lys-105 to Pro-112,	Pro-146 to Trp-158,	Arg-181 to Arg-189,	Arg-241 to Arg-248,	Asp-285 to Asn-291,	Gln-328 to Ile-333,	Gln-369 to Thr-375,	Arg-380 to Phe-390.	Gly-3 to Ser-8.			Pro-3 to Pro-8,	Glu-22 to Gln-29.	Pro-89 to Ala-97.			,		•					Gln-16 to Gly-35,	Gly-59 to Ser-74.	Pro-5 to Gly-10,	Gly-24 to Ala-33,	Pro-88 to Pro-95,	Pro-106 to His-114.	Lys-50 to Ala-55,
							٠		4104			4105		4106										4107		4108				4109
	,								2 - 328			1 - 465		2 - 469		1						•		61 - 309		148 - 636				3 - 425
									1417			1418		1419										1420		1421				1422
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		H0253: 2	H0618: 4 and H0253:	H0253: 2	H0253: 2	AR051: 12, AR054:	10, AR050: 8	H0616: 6, H0618: 2,	H0253: 2 and H0038: 2.	H0253: 2	H0253: 2		H0253: 3	AR061: 3, AR089: 1	H0618: 3 and H0253:	1.		H0253: 5 and H0618:	3.	•	H0253: 2		H0253: 1 and H0616:	H0253: 2	
Thr-99 to Glu-104,	Arg-116 to Arg-122, Lys-129 to Thr-136		Gly-63 to Arg-71.	Leu-1 to Pro-7.							Gly-1 to His-8,	Glu-26 to Gly-33.	Glu-58 to Thr-63.	Tyr-52 to Gln-60,	Phe-86 to Ala-94,	Lys-111 to Arg-118,	His-193 to Tyr-198.	His-22 to Lys-36,	Asp-51 to Lys-59,	Gln-68 to Leu-83.	Ala-1 to Cys-13, -	Arg-32 to Ala-37.	Pro-3 to Gly-9.		
		4110	4111	4112	4113	4114				4115	4116		4117	4118				4119			4120		4121	4122	
	,	174 - 347	1 - 414	102 - 287	33 - 239	177 - 1181				1 - 111	1 - 528		124 - 417	2 - 802				2 - 307	•		2 - 331		2 - 202	2 - 106	
		1423	1424	1425	1426	1427				1428	1429		1430	1431				1432			1433		1434	1435	
		573401	573464	686906	870258	870154				870257	934287		573460	973302				960314			506747		917022	575080	
		HTLDZ14	HTLEB14	HTLED72	HTLEF94	HTLEG65				HTLEG91	HTLEH30		HTLEI47	HTLEJ11				HTLEJ93			HTLEK64		HTLELOI	HTLEL03	

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120120, 120120, 120436, 120436, 120436, 138320, 168468, 182280,		126650, 126650, 154276	173360, 173360,	602136, 602136,	602136 , 602447		1		
	,	7922		<u> </u>	<u> </u>				
	H0253: 1 and H0617:	H0253: 2		,		H0253: 2, L0777: 2 and L0759: 1.	H0253: 1 and H0038:	H0253: 2, L0794: 2	H0618: 2 and H0253:
	Ala-29 to Asn-37, Lys-64 to Thr-77, 11e-97 to Arg-126.		• 1				Ser-2 to Pro-10.		His-7 to Ile-32, I Glu-82 to Glu-87, 1. Lys-103 to Gly-108.
·	4123	4124				4125	4126	4127	4128
1	58 - 555	3 - 143				1 - 456	2 - 265	3 - 443	3 - 605
	1436	1437				1438	1439	1440	1441
	953712	056699					506649	574942	953706
	HTLEL07	HTLEL31				HTLEM46	HTLE050	HTLEP16	HTLEQ07

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H0253; 2	H0038: 2 and H0253:	-		AR061: 6, AR089: 5	H0253: 18, H0618: 7,	L0794: 3, H0038: 1.	H0616: 1, L0788: 1 and	L0758: 1.		AR061: 4, AR089: 2	H0618: 10, H0253: 5,	L0758: 5, L0664: 1,	L0756: 1, L0779: 1 and	L0698: 1.	H0253: 2	L0794: 5, H0253: 3,	H0618: 2, H0616: 2,	L0758: 2 and L0787: 1.	H0616: 14, H0618: 8,	L0779: 4, H0253: 3,	H0038: 3, L0790: 1 and	L0758: 1.		H0253: 2, H0617: 2	and H0618: 1.	H0253: 2	H0253: 2		H0253: 2
	Pro-10 to Gln-19,	Pro-46 to Ile-59,	Thr-64 to Leu-70.	Ser-54 to Lys-61,	Pro-118 to Lys-128,	Thr-208 to Ser-213,	Ser-218 to Ala-227,	Pro-230 to Ser-236,	Pro-238 to Ser-244.	Leu-11 to Lys-18,	Phe-107 to Gly-114,	Glu-121 to Asn-128,	Met-146 to Pro-153.			Ala-8 to Gly-17,	Pro-25 to His-34.		His-1 to Thr-6,	His-14 to Cys-58,	Cys-70 to Ala-77,	Pro-85 to Cys-109,	Pro-116 to Glu-121.				Arg-1 to Gly-21,	Gln-38 to Asp-43.	Pro-38 to Trp-43,
4129	4130			4131						4132					4133	4134			4135					4136		4137	4138		4139
49 - 216	1 - 282			95 - 826			1			2 - 826					1 - 1111	1 - 273			52 - 414					2 - 346		3 - 197	2 - 130		5 - 226
1442	1443			1444						1445					1446	1447			1448		-			1449		1450	1451		1452
573403	574884			911654			,			836820					573454	527956			883332					870255		573458	967309		775310
HTLES43	HTLES54			HTLET56						HTLET78	_			•	HTLET93	HTLEV33			HTLEV95					HTLEW12		HTLEW21	HTLEY11		HTLEY91

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																126650,	126650,	154276,	173360,	173360,	602136,	602136,	602136,	602447					
																7q22	,	•						,					,
Taranta de la casa de		H0618: 4 and H0253:	3.	H0618: 2 and H0253:	7	H0253: 2	H0253: 2 and H0618:	1.			H0618: 3 and H0253:	3.		H0253: 4 and H0038:		H0253: 5, H0618: 4,	H0038: 1 and H0616: 1.										H0253: 8 and H0618:	7.	
Pro-47 to Lys-54,	Gly-62 to Arg-72.	Asn-18 to Pro-44,	Val-64 to Phe-70.	Pro-5 to His-12,	Glu-30 to Thr-36.		Ser-20 to Glu-26,	Gly-31 to Ala-46,	Thr-62 to His-67,	Arg-72 to Pro-81.	Ala-4 to Trp-10,	Glu-27 to Gln-32,	Gly-115 to Gly-122.	Asn-7 to Val-12,	Leu-15 to Ser-23.	His-1 to Cys-6,	Glu-24 to Gly-29,	Gln-53 to Asp-59,	Gly-80 to Pro-86,	Glu-142 to Ser-148,	Ser-154 to Val-160,	Pro-163 to Gln-180,	Val-195 to Pro-200, -	Lys-205 to Ser-213,	Ala-222 to Glu-228,	Asp-239 to Gly-270.	Gly-11 to Val-29,	Gly-31 to Glu-38,	Ala-40 to Arg-48,
		4140		4141		4142	4143				4144			4145		4146											4147		
1		2 - 334		3 - 251		3 - 209	279 - 707				409 - 1041			98 - 313	-	3 - 812											80 - 475		
		1453		1454		1455	1456				1457			1458		1459											1460		
		791662		934288		870261	934172				917128			917033		954984						•					934278		
		HTLEZ14		HTLEZ15		HTLEZ32	HTLFA74				HTLFC20			HTLFE01		HTLFE05											HTLFE20		

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	·	126650, 126650, 154276, 173360, 173360, 602136, 602136, 602136,	1	1			
		7922					1
	H0253: 3 and H0038: 2.	AR089: 19, AR061: 13 7q22 H0618: 8 and H0253: 4.	H0253: 1 and H0038:	H0253: 2	AR061: 3, AR089: 1 H0618: 4, H0253: 4, H0616: 2, L0758: 2 and H0038: 1.	L0758: 2, H0618: 1, H0253: 1, H0616: 1 and L0779: 1.	H0618: 4, L0779: 1 and L0758: 1.
Gly-55 to Val-65, Leu-70 to Thr-76.	Pro-24 to Arg-31, Ile-66 to Leu-72, Asp-90 to Glu-98.	Ala-15 to Asp-23, Thr-44 to Tyr-52.	Asp-13 to Leu-26, Val-38 to Val-76.	Gln-7 to Phe-13, Leu-24 to Val-37, Pro-50 to Leu-65.	Gly-3 to Gly-9, Leu-51 to Gln-58, Leu-67 to Ser-74, His-100 to Pro-106, Arg-132 to Arg-138.	His-27 to Ser-39, His-47 to Pro-55.	Thr-13 to Ser-21, Arg-26 to His-44, Ala-85 to Cys-91,
	4148	4149	4150	4151	4152	4153	4154
	2 - 430	2 - 622	19 - 513	2 - 343	28 - 600	287 - 652	2 - 574
	1461	1462	1463	1464	1465	1466	1467
	775392	953730	781303	573462	870136	835493	789656
	HTLF128	HTLF139	HTLF183	HTLFJ39	HTLGD25	HTLGD69	HTLGG36

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	H0618: 2, H0617: 1 and L0743: 1.	H0618: 2	AR089: 21, AR061: 16 H0618: 32, H0253: 13, H0616: 6, L0758: 3.	H0038: 2, L0794: 2, H0009: 1, H0688: 1,	L0769: 1, L0372: 1, L0646: 1, L0363: 1, L0766: 1, L0790: 1, L0665: 1, H0670: 1 and	L0779: 1. H0618: 9 H0253: 1	and L0758: 1.	H0618: 3 and H0253: 3.		L0748: 4, H0618: 3,	L0777: 2, H0038: 1,	H0616: 1, L0772: 1 and	L0775: 1.	
Thr-104 to Thr-121, Gly-156 to Arg-163.		Lys-1 to Gly-12, Glu-32 to Phe-41, Arg-69 to Leu-81, Pro-188 to Ile-195	Arg-1 to Glu-6, Ile-15 to Phe-23, Gly-59 to Phe-72,	Pro-95 to Trp-112, Phe-117 to Pro-129.		Asn-4 to Thr-10	Pro-46 to Asp-51.	Arg-39 to Asn-44, Arg-55 to Gly-62,	Arg-98 to Ile-103.	Pro-41 to Gly-57,	Pro-87 to Ser-95,	Glu-97 to Pro-106,	He-122 to Glu-128,	Gln-152 to Arg-166, Thr-180 to Arg-187,
	4155	4156	4157			4158		4159		4160				
	1 - 483	62 - 766	3 - 761	•		2 - 547		1 - 768		61 - 906				
	1468	1469	1470			1471		1472		1473				
	608898	964878	952254			918606		958208		870528				
	HTLGK55	HTLGM02	HTLGM07			HTLGT62		HTLGW17		HTLGX90				

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	AR061: 7, AR089: 4 H0618: 32 H0253: 13	H0616: 6, L0758: 3,	H0038: 2, L0794: 2,	H0009: 1, H0688: 1,	L0769: 1, L0372: 1,	L0646: 1, L0363: 1,	L0766: 1, L0790: 1,	L0665: 1, H0670: 1 and	L0779: 1.	H0618: 3 and H0253:	1.	H0253: 11, H0618: 8,	L0779: 3, L0758: 3 and	L0768: 1.	H0038: 2, L0747: 2,	H0618: 1, L0665: 1,	L0779: 1 and L0758: 1.	AR089: 35, AR061: 7	H0618: 2		H0618: 2	H0618: 2	H0618: 2			H0618: 26, H0253: 20
Leu-191 to Pro-199, Glu-231 to Cys-241, Val-248 to Asp-255.	Gly-38 to Phe-51, Pro-74 to Tm-91	Phe-96 to Ala-127,	Glu-130 to Gly-148.									Gln-1 to Trp-27.)	Lys-36 to Glu-45.			Phe-6 to Ala-12,	Arg-24 to Arg-35,	Leu-66 to Phe-84.	Glu-37 to Gln-42.		Tyr-31 to Arg-42,	Met-63 to Leu-69,	Tyr-114 to His-123.	Pro-1 to Ala-10,
	4161									4162		4163			4164			4165			4166	4167	4168			4169
	3 - 503			,	1			,		62 - 508		186 - 1103			298 - 164			87 - 455			11 - 181	350 - 604	1 - 381			21 - 893
	1474									1475		1476			1477			1478			1479	1480	1481	•		1482
	908428				ı					963471		958334			88882			933335			926980	870156	946586			870254
	HTLHC14									HTLHE72		HTLHL82			HTLH094			HTLHP32			HTLHP52	\neg	HTLHT15			HTLHT24

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			+			-	118485,	151670,	231680,	272800,	272800,	272800,	276700,	600374.	601780	,												
	·						15q23-q25									,						•						
and L0758: 1.		L0758: 8, H0618: 4,	H0253: 1, H0038: 1 and	L0769: 1.			H0618: 3					1	•			H0618: 2		H0618: 1 and H0253:	1.	H0618: 2, L0764: 2,	H0253: 1, L0492: 1,	H0673: 1 and H0038: 1.		AR089: 7, AR061: 7	H0618: 1 and H0038:	-	H0618: 2	
	Asp-61 to Asp-66, Ser-81 to Ala-88.	Gln-10 to Ile-18,	Arg-41 to Ala-59,	His-115 to Lys-128,	Lys-143 to Glu-151,	Thr-164 to Glu-169.	Glu-2 to Thr-7,	Arg-64 to Lys-72,	Glu-77 to Leu-83,	Arg-93 to Ser-102,	Ile-118 to Gln-123.		٠			Ser-134 to Glu-139,	Thr-154 to Leu-160.	Arg-1 to Gln-13,	Phe-16 to Pro-62.	Pro-7 to Lys-15,	Asp-21 to Ser-28,	Gln-53 to Ala-58,	Thr-115 to Asn-127.	Thr-10 to Thr-18,	Pro-58 to Val-65.		Pro-11 to His-17,	Pro-27 to Asp-36,
		4170					4171									4172		4173		4174				4175			. 4176	
		2 - 943					2 - 700							1		1 - 675		2 - 241		96 - 656				1 - 417			133 - 312	
		1483					1484									1485		1486		1487				1488			1489	
		926950					936139									958321		963475		784817				945891			966043	
		HTLHU04					HTLHV67									HTLHZ08		HTLHZ10		HTLIA92				HTLID36			HTLIK11	

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	L0758: 6, H0616: 3,	H0038: 2 and H0018: 1.			-		H0618: 2	H0618: 1 and H0253:					,		·	•	AR089: 9, AR061: 8	L0758: 12, H0618: 6,	H0038: 3, H0253: 1,	H0050: 1, L0151: 1 and	L0768: 1.	•	AR089: 9, AR061: 7	L0758: 10, L0794: 3,	H0618: 2, H0038: 2.	H0253: 1, L0768: 1 and	L0789: 1.	AR061: 0, AR089: 0	HU018: 04, HU233: 32,
Ser-38 to His-43.	Ser-25 to Thr-32,	HIS-30 to Lys-30,	Giu-111 to Asp-110,	Trp-156 to Lys-161,	Leu-189 to Arg-202,	Asp-258 to Thr-264.		Leu-11 to Leu-17,	Pro-22 to Leu-27,	Pro-40 to Lys-46,	Arg-66 to Pro-73,	Thr-91 to Ser-98,	Val-102 to Lys-108,	Gly-125 to Glu-130,	Leu-138 to Asp-144,	Arg-149 to Arg-158.	Pro-13 to Ala-18,	His-30 to Gln-37,	Gly-49 to Ala-66,	Ala-80 to Lys-92,	Glu-98 to Asp-103,	His-119 to Thr-126.	Pro-18 to Asp-23,	Arg-110 to Gln-122.					
	4177						4178	4179		•							4180						4181					4182	-
	3 - 899						501 - 644	3 - 659							. ,		609 - 94						618 - 97					1 - 1368	
	1490						1491	1492									1493						1494					1495	
	958351						931046	870115									946300						947234					942161	
	HTLIP19						HTLIQ09	HTLIR30									HTLIU76						HTLIV78					HTLIY52	

	126650, 126650, 154276, 173360, 173360, 602136, 602136,				
	7922				
L0758: 6, L0779: 2, H0392: 1, H0038: 1, L0761: 1, L0803: 1, L0806: 1 and L0697: 1.	H0618: 8 and H0253:	H0618: 2	AR061: 7, AR089: 5 H0618: 12, H0253: 8, H0038: 6, L0758: 6, L0779: 5, H0616: 3, T0041: 1, L0776: 1, S0274: 1 and H0543: 1.	H0618: 1 and H0253:	H0253: 5 and H0618:
	Thr-50 to Tyr-58, Gly-155 to Gln-161, Thr-164 to Gln-175.	Ile-1 to Trp-9, Gly-35 to Val-53, Gly-55 to Glu-62, Ala-64 to Arg-72, Gly-79 to Arg-85.	His-1 to Phe-9, Cys-13 to Thr-18, Pro-35 to Gly-48, Glu-61 to Pro-68, Lys-105 to Ala-136, Thr-144 to Gln-154, Leu-163 to Gly-171, Thr-205 to Gln-222, Pro-251 to Gln-257.	Cys-5 to Ser-15, Pro-36 to Pro-44.	Arg-15 to Glu-25,
	4183	4184	4185	4186	4187
	2 - 814	3 - 572	3 - 1355	1 - 192	161 - 760
	1496	1497	1498	1499	1500
	953729	934279	922923	967336	953714
	HTLJA23	HTLJA24	HTLJC71	HTLJD35	HTLJD88

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2.	AR089: 11, AR061: 9 H0253: 7, H0618: 6,	L0794: 2, L0779: 2,	L0595: 2, H0687: 1,	L0438: 1, L0741: 1 and	L0758: 1.	H0618: 3, H0038: 3,	H0616: 3 and H0253: 2.	H0040: 3	H0040: 2	H0040: 2	L0770: 3, L0766: 3.	L0759: 3, L0790: 2,	H0659: 2, H0040: 1,	L0776: 1, L0663: 1,	L0665: 1, L0752: 1 and	L0755: 1.	H0040: 2	H0040: 2		ı	H0040: 2			H0040: 2	110040. 2	H0040: 2
Lys-35 to Val-41, Gln-70 to Pro-100.	Gln-1 to Thr-12.					Leu-9 to Ser-14.					Leu-10 to Lys-16,	Asn-43 to Ser-49.				1		Gly-21 to Gly-27,	Pro-38 to Gly-49,	Ser-68 to Asp-73.	Arg-7 to Cys-13,	Ser-16 to Arg-21,	Ala-28 to Gly-33.	Pro-6 to Asn-13,	1111-25 to GIY-54.	
	4188					4189		4190	4191	4192	4193						4194	4195			4196			4197	4100	4170
,	1 - 921					2-619		132 - 245	74 - 160	2 - 232	3 - 194		ı		,		1 - 261	29 - 274			91 - 255		-	61 - 309	1 - 156	1 100
	1501					1502		1503	1504	1505	1506						1507	1508			1509			1510	1511	1711
	924755					922994		835652	723331	509574	707750		•				509657	509453			961057			197726	509128	777.77
	HTLJJ75				- 1	HTLJL23		HTTAD55	HTTAE49	HTTAH87	HTTAJ35						- 1	HTTAN57			HTTAS96			HTTAU82	HTTBF25	7

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H0040: 1, L0438: 1	and H0658: 1.	H0031: 1 and H0040:	Ι.	H0040: 2	AR061: 4, AR089: 3	H0040: 2	H0040: 2	H0040: 2	H0040: 2	H0040: 2	H0040: 2, L0766: 1	and L0758: 1.	AR061: 5, AR089: 2	H0040: 3			H0040: 2	H0040: 3	H0040: 2		H0040: 1 and H0634:	1. H0040: 3		H0040: 2	H0040: 3 and L0792: 1.
Pro-14 to Gly-20,	Leu-23 to Asn-33.	Ser-16 to Lys-22,	Ser-29 to Gin-53.		Thr-3 to Arg-14.			Glu-74 to Tyr-79.	Asn-1 to Ser-13.				Phe-86 to Tyr-94,	Val-149 to Lys-155,	Trp-169 to Asn-179,	Thr-189 to Glu-197.		4	Gly-13 to Gly-19,	Pro-38 to Gly-50, Glu-67 to Glv-73		Ser-2 to Val-16	Pro-50 to Trp-56.		
4199		4200		4201	4202		4203	4204	4205	4206	4207		4208				4209	4210	4211	-	4212	4213		4214	4215
177 - 326	+	106 - 264		114 - 266	3 - 263		54 - 176	2 - 262	248 - 391	3 - 101	72 - 185		3 - 1049		ı		191 - 298	78 - 260	26 - 280		3 - 188	155 - 364		47 - 136	3 - 89
1512		1513		1514	1515		1516	1517	1518	1519	1520		1521				1522	1523	1524		1525	1526		1527	1528
530565		530562		530563	530564		578085	869705	925390	530393	529672		973210				526385	917155	968131		989698	973307		573641	523452
HTTBH34		HTTBH41		HTTBH54	HTTBJ94		HTTBN67	HTTCA15	HTTCD03	HTTCD71	HTTCL35		HTTCT34				HTTDF50	HTTDF90	HTTDG36		HTTDI21	HTTDJ65		HTTDL38	HTTDL45

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H0040: 2	H0040: 2	H0040: 2	AR089: 16, AR061: 9	H0040: 2	•		H0040: 2 and H0670:	1.	H0040: 2 and L0766:	1.	H0040: 2	H0040: 2	H0253: 3, L0758: 2,	H0618: 1, H0038: 1 and	H0040: 1.	H0040: 2	H0618: 1 and H0040:	•	H0040: 2	H0040: 2	H0040: 2	H0040: 2, L0439: 2,	L0438: 1 and L0747: 1.			H0040: 2, H0616: 1,	L0794: 1, L0779: 1 and
	Gln-8 to Ser-13, Asp-20 to Tyr-27.		Thr-3 to Lys-9,	Gly-14 to His-26,	His-30 to Lys-37,	Lys-43 to Ser-49.	Phe-25 to Phe-38.		Ile-3 to Lys-9.		Gly-8 to His-21.		Pro-33 to Arg-43,	Ala-48 to Tyr-57.	_		Ser-11 to Ala-19,	Lys-27 to Ala-33.	•			Lys-8 to Val-20,	Ser-72 to Ala-77,	Ala-84 to Ser-92,	Leu-110 to Lys-119.	Ser-1 to Gln-7,	Arg-9 to Glu-14,
4216	4217	4218	4219				4220		4221		4222	4223	4224			4225	4226		4227	4228	4229	4230				4231	
183 - 341	52 - 387	89 - 313	1 - 333	٠		1	150 - 440		110 - 280		190 - 330	217 - 387	1 - 480			125 - 298	2 - 313		227 - 349	149 - 286	102 - 209	7 - 2				85 - 285	
1529	1530	1531	1532				1533		1534		1535	1536	1537			1538	1539		1540	1541	1542	1543				1544	
959837	734318	783444	908937				573685		200336		573666	920589	921100			692608	523206		573719	747943	745985	967819				573614	
HTTDL89	HTTDN40	HTTDN85	HTTD019				HTTD037		HTTDR91		HTTDR92	HTTDS02	HTTDX84			HTTDZ54	HTTDZ91		HTTEB33	HTTEH58	HTTEL50	HTTEU68				HTTEV62	

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						1.4			1								17q			11p11.2-p11.1 133701,					,
L0758: 1.	H0040: 4	H0040: 2, H0435: 1,	L0439: 1 and L0759: 1.	H0040: 2	H0040: 1, S0150: 1 and	L0601: 1.	H0040: 2	H0040: 5	H0040: 2, H0169: 1	and L0753: 1.	H0040: 2	H0040: 2, L0794: 2,	L0659: 1, L0809: 1,	L0779: 1 and L0752: 1.	H0040: 3	•	H0040: 2, L0805: 1	AD061: 6 AD080: 2		H0040: 2, L0748: 2,	L0749: 2 and L0766: 1.				
Pro-16 to Val-24, Arg-35 to Asp-40.		Ala-1 to Ala-7,	Gly-53 to Lys-67.	Arg-40 to Asn-45.				Asp-14 to Gln-22.				Arg-25 to Trp-32.			Gly-15 to Gly-21,	Pro-31 to Pro-46.									
	4232	4233		4234	4235		4236	4237	4238		4239	4240			4241		4242	4743		4244					
	207 - 464	598 - 804		168 - 329	1 - 408	1	2 - 220	1 - 183	235 - 441		139 - 285	36 - 263			99 - 419		52 - 219	141 - 1070	7701	1 - 273					
	1545	1546		1547	1548		1549	1550	1551		1552	1553			1554		1555	1556		1557					
	974107	917903		771602	84018		999698	778426	974284		757358	787599			974346		750942	950051		825922					
	HTTEY64	HTTEY67		HTTEZ34	HTTFA16		HTTFB60	HTTFG35	HTTFG83		HTTFH70	HTTFK90			HTTFL89		HTTFM17 750942	HTTEM66		HTTFS59					

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	H0040: 3	H0040: 2	H0615: 1 and H0040:	L0748: 13, L0770: 4,-	L0777: 3, H0040: 2,	L0794: 2, L0528: 2,	L0789: 2, L0758: 2,	H0685: 1, H0688: 1,	L0662: 1, L0768: 1,	L0766: 1, L0657: 1,	L0526: 1, L0809: 1,	L0439: 1 and L0740: 1.	H0040: 2 and H0634:	1.	H0634: 2	L0755: 3, L0766: 2,	H0031: 1, H0634: 1,	L0439: 1 and L0759: 1.	H0634: 2	H0634: 2	H0040: 1 and H0634:	1.	H0040: 1, H0634: 1	and L0485: 1.	H0634: 2	H0634: 2
	Asn-23 to Gln-29, Arg-37 to Asn-43.	Asp-36 to Lys-41.											Lys-20 to Lys-27.		Tyr-12 to Gly-17.				His-54 to Ser-61.	Lys-47 to Asp-56.					Gln-15 to Thr-20.	Ala-17 to Gln-28,
	4245	4246	4247	4248									4249		4250	4251			4252	4253	4254		4255		4256	4257
	34 - 207	47 - 169	53 - 202	63 - 212	1				•				114 - 329	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	436 - 606	207 - 542			2 - 235	2 - 247	32 - 226		547 - 717		338 - 553	158 - 430
	1558	1559	1560	1561									1562	0,00	1563	1564			1565	1566	1567		1568		1569	1570
	934460	925544	923105	924775	,								974066	3	951004	953479			926752	869636	869635		934089		869634	931015
	HTTFT08	HTTFV93	HTTFW03	HTTFX21								- 1	HTTFZ70		- 1	HTTHU43			HTTIG04	HTTIH23	HTTIH80		HTTIL06		HTTIN23	HTTIU05

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									···																			
	H0634: 3	H0634: 2	H0040: 1, H0634: 1	and L0803: 1.	H0040: 1 and H0634:	1	H0634: 2		: :	H0634: 2	H0040: 1 and H0634:	1.	H0040: 1 and H0634:	1.	H0634: 2	H0549: 1 and H0634:	1.	H0040: 2 and H0634:	1.	H0634: 2	H0634: 3	H0634: 3	H0634: 3	H0634: 1, H0672: 1	and L0740: 1.	AR089: 1, AR061: 1	H0634: 2	H0634: 2
Pro-73 to Thr-83.		Ser-60 to Pro-69.	Glu-54 to Lys-60,	Pro-65 to Gly-74.	Glu-61 to Lys-66,	Met-76 to Asn-83.	Gln-11 to Gly-17,	Glu-26 to Ser-36,	Arg-53 to Ala-60.	Pro-14 to Pro-20.			Arg-29 to Arg-41.	•		Lys-13 to Arg-21,	Gly-26 to Thr-36.	ł				-	-	Asn-54 to Leu-60.		Thr-15 to Asp-25,	Glu-69 to Leu-89.	Ala-12 to Gly-22,
	4258	4259	4260		4261		4262			4263	4264		4265		4266	4267		4268		4269	4270	4271	4272	4273		4274		4275
	294 - 446	112 - 354	13 - 240		18 - 356		3 - 182			137 - 283	61 - 177		1 - 147		169 - 276	2 - 448		1 - 189		56 - 181	210 - 383	228 - 362	354 - 509	166 - 429		2 - 337		65 - 484
	1571	1572	1573		1574		1575			1576	1577		1578		1579	1580		1581		1582	1583	1584	1585	1586		1587		1588
	922817	930994	839725		869618		\$19698			913799	934130		974063		958170	948750		876096		915033	974311	974316	974310	920893		911390		926795
	HTTIW81	HTTIZ05	HTTJA11		HTTJA47		HTTJH13			HTTJM01	HTTJQ06		HTTJX68		HTTJY08	HTTKD44		HTTKF89		HTTKG34	HTTKK06	HTTKL80	HTTKN21	HTTKN30		HTTKP07		HTTKS13

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			H0634: 2		S0042: 2	H0038: 1 and S0042: 1	H0059: 2		H0059: 2	H0059: 2	H0059: 3	H0059: 2	H0059: 2	H0059: 2	H0059: 2	H0059: 2	H0059: 2, L0657: 1,	L0809: 1 and L0789: 1.	H0059: 2 and L0766:	<u></u>	1	H0059: 2	H0059: 2		H0059: 2	H0059: 2 and L0803:	2	
Pro-38 to Ser-45,	Ala-77 to Pro-83,	Ala-88 to Gly-93.	Inr-1 to Gln-/,	Gly-15 to Gm-57.			Ala-4 to Val-11,	Gly-58 to Leu-64.		Glu-1 to Arg-14.		Gly-23 to Pro-31.	Pro-1 to Lys-7.	Ser-27 to Thr-35.	Asp-13 to Gln-19.		Pro-19 to Pro-28.	ı	Ile-49 to Gly-63,	lle-66 to Asp-77,	Gly-84 to Ser-90.		Arg-1 to Ser-6,	Tyr-11 to Asp-17.		Thr-14 to Trp-20,	Gly-25 to Pro-30,	Gln-42 to Trp-60.
	_	7207	47/0		4277	4278	4279		4280	4281	4282	4283	4284	4285	4286	4287	4288		4289			4290	4291		4292	4293		
	1	7	6-193		3 - 224	2 - 163	308 - 81		210 - 347	1 - 309	122 - 322	36 - 164	57 - 224	26 - 334	3 - 164	139 - 327	126 - 254		2 - 271			253 - 62	3 - 122		103 - 294	3 - 302		
		1500	1369		1590	1591	1592		1593	1594	1595	1596	1597	1598	1599	1600	1601		1602			1603	1604		1605	1606		
		920009	900000		229157	739638	503626		503445			954359		531165	531163	531110	531108		522213			714187	967604		526819	537530		
		HTTVV17	, iii iiv ii	200	HUDAIM29	HUDBZ78	HUKAA62		HUKAB80	HUKAC72	HUKAM82	HUKAX07	HUKCC86	HUKDH28	HUKDH50	HUKEH36	HUKEH50		HUKEK55			HUKE055	HUKES11		HUKFL69	HUKFV41		

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AR061: 69, AR089: 1 H0046: 1 and H0059:	T0069: 2	H0056: 2	H0056: 2	H0056: 3	H0056: 7			•	H0056: 10 and S0134:	H0056-1 H0623-1	and L0748: 1.	H0056: 2		H0056: 8	H0056: 6 and L0547:	1.	H0056: 2	H0056: 11, L0805: 2,	L0789: 2, S0358: 1,	L0375: 1, L0776: 1,	L0743: 1, L0777: 1 and	L0759: 1.	H0056: 2
Cys-18 to Ser-24, Gly-29 to Gln-37.	Thr-1 to Asn-10, Ser-18 to Lys-31.			Thr-35 to Asn-45.	Asp-14 to Ala-30,	Val-33 to Tyr-39,	Ile-52 to Lys-58,	Thr-83 to Arg-88.	Ile-1 to Asn-8.	Asn-1 to Ala-14			Phe-55 to Leu-60.	Arg-6 to Ala-26.		1	Gly-1 to Ser-10.						Pro-27 to Trp-38, Leu-48 to Arg-56.
4294	4295	4296	4297	4298	4299				4300	4301		4302		4303	4304		4305	4306					4307
2 - 112	1 - 135	184 - 342	145 - 231	122 - 289	3 - 371	,			163 - 372	1 - 243		79 - 279		139 - 309	38 - 220		151 - 297	3 - 176					1 - 177
1607	1608	1609	1610	1611	1612				1613	1614		1615		1616	1617		1618	1619					1620
946931	575299	503042	505203	933023	928053				868795	914768		699896		535361	535006		509119	921088		•			707061
HUKFX63 946931	HUNAD94	HÜVBB90		HUVBC12	HUVCQ07 928053			- 1	HUVCQ55	HUVCS14		HUVCU71		HUVCW62	HUVDB28	1		HUVDC15					HUVDD09

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H0056: 2	H0056: 2	H0056: 3	H0056: 2, H0623: 1 and L0439: 1.	H0056: 3 and H0623:	H0056: 2	H0623: 2, H0056: 1	H0056: 2 and H0623:	2.	H0623: 2, H0056: 1	H0056: 1 and H0623:	1.	H0040: 1, H0056: 1,	H0623: 1, L0755: 1 and	L0592: 1.	H0056: 2	H0056: 2	H0056: 2, H0615: 1	and H0623: 1.	H0056: 2 and H0623:	H0056: 1 and H0623:		H0056: 1 and H0623:
Arg-1 to Ser-6, Arg-13 to Ser-18.		Gly-1 to Arg-12.	Glu-13 to Phe-18, Gly-46 to Ala-56.	,	Lys-16 to Lys-36.	Ser-21 to Thr-29.	Phe-7 to Trp-22.		Ala-2 to Gly-9.		_	Lys-31 to Gln-40,	Gln-42 to Met-49,	Lys-74 to Thr-82.		Gln-20 to Cys-26.	Arg-12 to Gly-17.			Leu-22 to Ser-31.		
4308	4309	4310	4311	4312	4313	4314	4315		4316	4317		4318			4319	4320	4321	0007	4322	4323		4324
1 - 225	2 - 214	3 - 257	29 - 241	111 - 293	3-110	233 - 412	1 - 81		224 - 415	3 - 263		318 - 572			1 - 150	75 - 164	3 - 110		148 - 354	170 - 343		175 - 330
1621	1622	1623	1624	1625	1626	1627	1628		1629	1630		1631			1632	1633	1634	, 60,	1635	1636		1637
961020	526248	522823	530558	719332	530387	679477	530386		958027	099898		430750			534783	527937	530094	011070	6//898	967815		868782
HUVDF13 961020	HUVDF84	HUVDF88	HUVDI28	HUVDI76	HUVDL30	HUVD025	HUVDP95		HUVDS26	HUVDU51		HUVED35			HUVED54	HUVED65	HUVEN50	Т	HUVFASS	HUVFB48	3	HUVFB69

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1.	H0623: 2 and L0759:	H0623: 2	H0623: 3	H0056: 1 and H0623:	H0623: 2	H0623: 2, L0749: 2,	H0056: 1 and L0794: 1.			H0623: 2	H0623: 3	H0623: 2 and L0534:	1.		H0623: 3, H0616: 1	and L0748: 1.		H0545: 1 and H0623:	_		H0623: 2		AR089: 2, AR061: 1	H0623: 2, H0056: 1,	L0803: 1, L0750: 1 and
	Phe-1 to Gly-8.	Phe-3 to Arg-8, Arg-21 to Ser-27.	Ser-27 to Gly-32.		Ser-46 to Pro-57.	His-7 to Thr-18,	Gly-53 to Phe-59,	Pro-67 to Ser-74,	Val-76 to Leu-85.	Asp-1 to Arg-7.		Thr-3 to Ala-12,	Ser-27 to Ala-32,	Ala-38 to Glu-44.	Arg-1 to Ser-8,	Pro-13 to Pro-18,	Glu-55 to Trp-64.	Asp-1 to Asn-10,	Thr-29 to Trp-43,	Trp-62 to Ser-68.	Thr-9 to Asp-17,	Asp-43 to Arg-48.			Val-98 to Pro-105.
	4325	4326	4327	4328	4329	4330				4331	4332	4333			4334			4335			4336		4337		
	85 - 240	240 - 362	160 - 294	3 - 131	119 - 328	435 - 734				3 - 128	213 - 374	20 - 286			97 - 417			3 - 371			225 - 422		2 - 382		
	1638	1639	1640	1641	1642	1643				1644	1645	1646			1647			1648			1649		1650		
	952080	922064	934003	9//898	965765	868784				958059	922727	918233			870617			692898			933942		909169		
	HUVFC07	HUVFH03	HUVFH32	HUVF103	HUVFK11	HUVFK58				HUVFL71	HUVFQ03	HUVFR02			HUVFT28			HUVFT50			HUVFZ06		HUVGZ77		•

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											22q13.33																
L0779: 1.	H0056: 1 and H0623:	H0623: 3	AR089: 3, AR061: 1	H0040: 1, H0056: 1	and H0623: 1.	H0623: 2	H0623: 2 and H0056:	1.	H0056: 1, H0623: 1	allu LUSU/. 1.	H0623: 2 and L0731:					H0623: 2	H0666: 339, H0660: 3,	L0751: 2, H0676: 1,	H0560: 1 and H0520: 1.	H0666: 5	H0666: 2	H0666: 222, L0776: 5.	L0749: 3, S0358: 2,	L0763: 2, L0766: 2,	L0439: 2, L0596: 2,	H0650: 1, H0341: 1,	S0442: 1, H0009: 1,
		Pro-35 to Ser-46.	Pro-5 to Trp-10,	Phe-20 to Met-26,	Leu-85 to Trp-92.		Lys-21 to Lys-27.		Leu-23 to Ser-35.		Leu-51 to Val-56,	Ala-69 to Arg-74,	Thr-82 to Thr-91,	Asp-116 to Ile-126,	Ala-142 to Pro-147.	Thr-47 to Arg-53.	Ala-47 to Phe-55.			His-1 to Ser-6.		Arg-8 to Gly-19,	Pro-22 to Cys-29,	Asp-54 to Cys-65,	Ser-68 to Ala-77,	Glu-97 to Ser-103,	Pro-171 to Leu-176.
	4338	4339	4340			4341	4342		4343		4344					4345	4346			4347	4348	4349					
	145 - 354	200 - 400	51 - 344			158 - 39	33 - 221		313 - 522	,	1 - 486			ł		158 - 361	3 - 206			519 - 632	3 - 62	3 - 560					
	1651	1652	1653			1654	1655	,,,,,	1656	200	1657					1658	1659			1660	1661	1662					
	868751	963129	908555			868697	968507	00000	060766	1007700	924621					868649	802696			925844	933449	925796					
	HUVHB35	HUVHB59	ночнс93			HUVHD88	HUVHG80 968507	Т	novnio/	THEFT	HUVHO40 924621				\neg	\neg	HVCAZ38			+		HVCCK04					

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						3: 1.		_				72:		1	-	1			2	5: 5,		_					
012: 1 150: 1	655: 1,	659: 1,	809: 1,	663: 1,	602: 1,	.0731: 1 and L0758:		H0644: 1, H0658: 1	. :			L0666: 3 and H0672:		1, AR089:	H0038: 1, H0672:				R061:	H0651: 709, L0766: 5,	756: 3,	779: 2,	354: 1,	013: 1	545: 1	252: 1	316: 1
: 1, H(: 1, L0	.1, LO	1, LO	1, LO	1,10	1 and	2:2	4: 1, H	672: 1	2:2	2:2	5: 3 an			8: 1, H	758: 1	2:2	2: 2	3, 4	1: 709,	.0754: 5, L0756: 3,	.0803: 2, L0779: 2	.0759: 2, S0354:	1, HO	1, H0	1, H0	1, H0
H0178: 1, H0012: H0087: 1, S0150: 1	L0805: 1, L0655: 1	L0657	L0783	L0789	S0374: 1, L0602:	L0731	H0672: 2	H064	and H0672: 1	H0672: 2	H0672: 2	7066 1066	2.	AR061:	H003	and L0758:	H0672: 2	H0672: 2	AR089	H065	L0754:	L0803:	L0759:	H0643: 1, H0013:	H0194	H0373: 1, H0252:	H0615: 1, H0316:
).							32.												
								Glu-4(Tyr-21		Lys-43	Thr-1			Гтр-18 Гhr-42	Lys-31	1							
								Asp-34 to Glu-40.			ļ. -	Cys-14 to Tyr-21.		Glu-38 to Lys-43,	Gly-125 to Thr-132			Lys-12 to Trp-18, Phe-35 to Thr-42.	Cys-17 to Lys-31	,							
								Asp				Cys		Ghi	<u> </u>			Lys-	Cys		 ,		•				
							4350	4351		4352	4353	4354		4355			4356	4357	4358								
							273	277		- 240 -	171	480		397			104	294	410								
							85 - 273	83 - 277		1-,	1 - 171	710 - 480		2 - 397			3 - 104	67 - 294	78 - 410		,						
							1663	1664		1665	1666	1667		1668			1669	1670	1291								
							949141	914354		933675	296896	964102		933167			917559	913996	957834								
							[HVVAJ01				HVVBK45	7	HVVBK72		_	T	HVVCO01	HWLHJ68								

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				,		÷			179605, 179605,
	14 ,	,						,	6p21.1-p12
H0040: 1, H0641: 1, H0647: 1, S0422: 1, L0598: 1, L0369: 1, L0520: 1, L0762: 1, L0649: 1, L0804: 1, L0527: 1, L0656: 1,	` ਜੱ ਜੱ ਜੱ : * :	L0752: 1 and L0686: 1. L0766: 1 and H0672:	AR089: 14, AR061: 6 H0672: 1	L0731: 2, L0635: 1, L0663: 1, H0672: 1 and L0777: 1.	L0470: 1 and H0623:	L0471: 1 and H0623: 1.	L0766: 3, H0623: 1, L0740: 1, L0745: 1 and L0779: 1.	H0623: 1 and L0439:	AR089: 2, AR061: 2 6p21.1-p12 H0623:1
				Pro-33 to Gly-38, Leu-45 to Thr-51.	Glu-28 to Arg-36, Pro-41 to Thr-50.	,	Ala-18 to Arg-25.		
		4359	4360	4361	4362	4363	4364	4365	4366
	1	137 - 3	2 - 406	288 - 443	215 - 580	1856 - 2053	2 - 397	443 - 204	61 - 1212
,		1672	1673	1674	1675	1676	1677	1678	1679
		925793	957658	933528	912011	952479	930892	950681	945834
	·	HVVDT04	HVVBY08	HVVBM06	HUVHL82	HUVHI06	HUVGP05		HUVF101

179605, 179605, 179605, 180297, 230450, 248611, 263200, 600364, 601498,														
	H0623: 1 and L0777:	H0056: 1	H0056: 1	H0056: 1	H0056: 1	H0056: 1	H0056: 1		H0056: 1	L0745: 3, L0752: 3,	H0056: 1, L0/61: 1,	.0803: 1, L0749: 1 and .0759: 1.	H0055: 1	T0069: 1 and L0779: 1.
···			Ile-1 to Leu-10, Gly-54 to Cys-77.		Gly-12 to Ser-17.			Lie-29 to Val-34, Ser-52 to Arg-60.		,	Fne-48 to Fne-54.	<u> </u>		
	4367	4368	4369	4370	4371	4372	4373		4374	4375			4376	4377
	112 - 258	13 - 177	2 - 277	200 - 313	1 - 144	80 - 343	420 - 701		1 - 147	2 - 199			521 - 384	120 - 278
	1680	1681	1682	1683	1684	1685	1686		1687	1688			1689	1690
	922889	868783	967813	954224	521938	526590	974232		522660	671479			667943	839574
	HUVFE03	HUVD018		HUVDO07		HUVDH61	HUVCU26			HUVBC21			HUVAA46	HUNAK12

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		1								•															·			
L0439: 4 and T0069: 1.	AR050: 45, AR051:	39, AR054: 35	T0069: 1	T0069: 1, L0764: 1,	L0771: 1, L0783: 1 and	L0756: 1.	L0754: 4, T0069: 1 and	L0599: 1.	T0069: 1		T0069: 1 and L0764: 1.	T0060.1 2.31 0266.1	10069: 1 and LU/06: 1.	T0069: 1 and L0754: 1.	L0748: 2 and T0069: 1.	T0069: 1 and L0747: 1.	H0059: 1 and L0756:		H0059: 1 and L0752:	1.	H0059: 1	H0059: 1	AR054: 9, AR050: 2,	AR051: 1	H0059: 1	H0059: 1 and L0747:	1.	L0766: 2 and H0059:
Ser-33 to Ser-38.		Thr-38 to Pro-46.		Glu-26 to His-35,	Pro-44 to Asn-49.				Ala-8 to Ser-14,	Lys-21 to Pro-29.	Thr-26 to Pro-36,	110-04 10 001-00.		Asn-1 to Asn-6.		Lys-1 to Asn-9.		1	Leu-32 to Tyr-38.		Gly-19 to Ser-24.		,					Arg-26 to Arg-31.
4378	4379			4380			4381		4382		4383	1201	+00+	4385	4386	4387	4388		4389		4390	4391	4392			4393		4394
185 - 352	3 - 221			171 - 326			2 - 205		50 - 214		2 - 388	704 401	274-471	65 - 199	2 - 190	3 - 170	53 - 151		1 - 174		2 - 241	67 - 213	263 - 433			83 - 226		47 - 364
1691	1692			1693			1694		1695		1696	1607	1027	1698	1699	1700	1701		1702		1703	1704	1705			1706		1707
711543	800452			961527			796691		524239		921132	068800	00000	753817	968754	714264	754186		574525		760581	574523	577349			574381		796014
HUNAG41	HUNAF22			HUNAF20			HUNAE95		HUNAE76		HUNAE02	HI WAD10	- 1	HUNAC68	HUNAB76	HUNAB42	HUKFS69		HUKFL89	\neg	HUKFL71	HUKFL52	HUKFK53			HUKFES6	\neg	HUKFD95

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_																										+
1.	H0059: 1 and L0779:	H0059: 1 and L0439:	AR061: 14, AR054:	11, AR050: 9, AR089:	4	LU/58: 2, H0059: 1,	L0789: 1, L0665: 1,	L0749: 1 and L0779:	H0059: 1, L0439: 1	and L0747: 1.	L0455: 1, H0059: 1	and L0753: 1.	L0465: 2 and H0059:	•	H0059: 1, L0657: 1	and L0748: 1.	L0766: 2, H0059: 1,	L0764: 1 and L0774: 1		1		H0059: 1			H0059: 1	TIONEO 1
	Pro-7 to Gly-18.			•							Met-23 to Gly-34,	Glu-40 to Ser-50.			Lys-27 to His-35.		Arg-1 to Asp-7,	Glu-26 to Ser-31,	Glu-51 to Val-56,	Asp-59 to Val-69,	Glu-85 to Asn-94.	Phe-8 to Glu-15,	Val-20 to Thr-25,	Cys-40 to Glu-49.		70 - 10 4- 0
	4395	4396	4397						4398		4399		4400		4401		4402					4403			4404	3011
	29 - 178	532 - 119	852 - 265						234 - 482		33 - 185		3 - 329		1 - 105		76 - 450					77 - 229			84 - 260	2 106
	1708	1709	1710						1711		1712		1713		1714		1715					1716			1717	1718
	921504	772501	957456						920815		719465		968333		690933		967742					529718			529723	518537
1	HUKEY01	HUKER62	HUKEP18			,			HUKDY02		HUKDU47		HUKDG10		HUKCP30		HUKC011					HUKCL85				HTIRCC15

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				1-1		,	,		1															,
H0059: 1	H0059: 1 and L0748:	L0748: 2 and H0059:	H0059: 1	H0059: 1, L0800: 1,	L0794: 1, L0789: 1,	L0747: 1, L0750: 1 and	L0362: 1.	H0059: 1, L0775: 1,	L0664: 1 and L0592: 1.		L0750: 2 and H0059:	1.	H0059: 1	H0059: 1 and L0755:	-		H0059: 1	H0059: 1, L0520: 1,	L0753: 1 and L0731: 1.	H0059: 1	L0439: 2 and H0059:			AR050: 75, AR054: 59, AR051: 51
Arg-16 to Cys-22, Pro-83 to Thr-88.			Ala-47 to Thr-53.	Asp-34 to Arg-41,	Glu-44 to Lys-50.			Arg-1 to Gln-7,	Gln-11 to Ser-17,	Ser-41 to His-46.			Lys-1 to Gln-8.	Ser-30 to Val-38,	Gln-44 to Ser-53,	Pro-56 to Gly-63.	Trp-10 to Gly-16.	1		-				Arg-7 to Arg-13, Asn-31 to Ser-37.
4406	4407	4408	4409	4410				4411			4412		4413	4414			4415	4416		4417	4418		5346	4419
399 - 136	351 - 178	379 - 170	150 - 329	314 - 117				139 - 402			159-1		317 - 102	2 - 421			1 - 207	274 - 2		369 - 67	286 - 2		156 - 434	213 - 533
1719	1720	1721	1722	1723				1724			1725		1726	1727			1728	1729		1730	1731		2659	1732
628540	502711	502911	672076	502912				716927			790487		524257	772734			625273	677470		503630	503627		503628	869026
HUKAT59	HUKAQ76	HUKAO47	HUKAM19	HUKAM18				HUKAL44			HUKAJ91		HUKAJ83	HUKAD77 772734			HUKAB63	HUKAB25		HUKAA54	HUKAA39	1		HUDBZ01

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		2, AR051: 0,		1			-	1			1					AR051: 32, AR050:	54: 25					L0783: 1, L0439: 1	L0731: 1 and S0042: 1.	H0634: 1 and L0593:		H0634: 1, L0662: 1 and L0766: 1.
S0042: 1			AR050: S0042:	S0042: 1	S0042:	S0042: 1	-	S0042: 1					S0042: 1					, S0042: 1	32,		22,			H0634:	1.	H0634: 1, L and L0766: 1
		Gly-43 to Leu-48,	Ser-57 to Lys-67.			Glu-17 to Ala-30,	Gly-42 to Thr-56.	Glu-1 to Leu-6,	Cys-10 to Asn-28,	Lys-41 to Tyr-50,	Gin-53 to Ser-60,	Pro-67 to His-78.	Phe-2 to Arg-7,	Asn-23 to Asn-32,	Gln-39 to Asn-45.	Thr-14 to Phe-26,	Gln-46 to Arg-52,	Leu-74 to Tyr-84,	Glu-125 to Glu-132,	Tyr-180 to Ser-186,	Leu-216 to Pro-222,	Glu-27 to Glu-33.		Thr-1 to Ser-10.		
	5347	4420		4421	4422	4423		4424					4425			4426						4427		4428		4429
	191 - 3	77 - 487		147 - 248	56 - 286	39 - 368		3 - 374					3 - 137	ı		18 - 710						109 - 234		1-171		380 - 240
	2660	1733		1734	1735	1736		1737					1738			1739						1740		1741		1742
	915945	896388	-	795796	746508	869034		686520					917361			899753						671974		969547		956206
		нирвк39		HUDBE95	HUDBE64	HUDBE48		HUDBE28					HUDBE02			HUDAK54						HUDAK19		HTTKG12		HTTKC85

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H0634: 1 and L0766: 1.	L0770: 3, L0777: 3, L0518: 2, L0779: 2, L0758: 2, L0608: 2, H0634: 1, L0764: 1, L0803: 1, L0749: 1 and L0752: 1.	H0634: 1 and L0565:	H0634: 1, L0803: 1, L0749: 1 and L0779: 1.	H0634: 1	H0634: 1, L0766: 1 and L0588: 1.	L0745: 2 and H0634: 1.	H0634: 1 and L0731:	H0634: 1 and L0748:	L0157: 1 and H0634:	H0040: 1	H0040: 1 and L0439:
	Glu-53 to Gln-62, Gly-80 to Val-86.	Gln-1 to Trp-16, Asp-18 to Gly-25, Leu-38 to Pro-43, Trp-146 to Gly-153.		Lys-11 to Glu-18.		l	Ala-10 to Thr-16.	Pro-25 to Thr-31, Pro-59 to Gly-72.	Asn-1 to Arg-11, - Val-23 to Ser-28, Asp-35 to Tyr-44.	Leu-21 to Gly-30.	Ser-24 to His-34.
4430	4431	4432	4433	4434	4435	4436	4437	4438	4439	4440	4441
61 - 213	132 - 497	2 - 577	395 - 532	136 - 345	86 - 235	452 - 625	195 - 329	1 - 216	87 - 218	128 - 373	146 - 301
1743	1744	1745	1746	1747	1748	1749	1750	1751	1752	1753	1754
869602	869612	934094	931024	974323	926772	965920	958169	895696	944914	751809	742004
HTTJV79	HTTJN26	HTTJK06	HTTIX05	HTTIR33	HTTIR04	HTTIN11	HTTE08	HTTB12	HTTHJ56	HTTFG12	HTTEZ61

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H0040: 1, L0766: 1 and L0748: 1.	H0040: 1, L0803: 1, L0439: 1 and L0777: 1.	AR061: 5, AR089: 5 H0040: 1	H0040: 1, L0740: 1 and L0747: 1.	AR050: 2, AR051: 1, AR054: 0	L0439: 3 and H0040: 1.		L0483: 1 and H0040:	L0754: 2 and H0040:	1.		-		•								
	Pro-28 to Thr-38, Gly-47 to Arg-52.	Gly-1 to Asp-8, Leu-15 to Cys-20, Glv-24 to Ser-29	Arg-2 to Ile-8, Ser-34 to Cys-44.	Pro-1 to Glu-7, Thr-29 to Gly-35,	Glu-63 to Ile-68, Glu-89 to Asn-95,	Glu-98 to Leu-105.	Arg-10 to Asp-15.	Arg-1 to Trp-9,	Pro-13 to Gly-19,	Gly-24 to Pro-32.		•	1								
4442	4443	4444	4445	4446			4447	4448													
57 - 230	2 - 205	1 - 153	396 - 545	1 - 339			1 - 387	511 - 747													
1755	1756	1757	1758	1759			1760	1761													
739445	917156	900662	728344	573669			932294	744438													
HTTEQ59 739445	HTTEQ01	HTTEO59	HTTE053	HTTEJS6			HTTEB05	HTTD059													

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191315, 230800, 230800	266200,	600897,	601105,	601412,	601652,	602491	,					1	,									
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				1			AR061: 5, AR089: 5	L0748: 2 and H0040:	H0040: 1 and L0748:	- 1	H0040: 1, L0742: 1	and L0592: 1.		H0040: 1 and L0748:	H0040: 1 and L0755:		L0745: 2 and H0040:	L0754: 2 and H0040:		H0040: 1 and L0748:	H0040: 1 and L0592:	L0764: 2 and H0040:
							7		Ala-4 to Pro-22.		Gly-10 to Cys-16,		Pro-39 to Pro-46.	Arg-83 to Arg-88.	Cys-19 to Pro-29.		Ala-50 to Asp-55.	Lys-15 to Asn-23,	Asp-75 to Val-82.	Pro-7 to Ala-26.		Arg-12 to Gly-20,
					-		4449		4450		4451			4452	4453		4454	4455		4456	4457	4458
	-				. 1		177 - 401	'	2 - 241	-	41 - 178			3 - 392	2 - 241		63 - 266	162 - 413		3 - 236	3 - 272	1 - 615
							1762		1763		1764			1765	1766		1767	1768		1769	1770	1771
						,	460948		694222		166551			784537	796674		709581	665096		524841	714220	932997
						4	HTTDM42		HTTDL81		HTTDL75			HTTDA85	HTTCQ95	,	HTTCJ39	HTTCD06		HTTCB87	HTTBR42	HTTBP62

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1	H0040: 1 and L0748: 1.	H0040: 1 and L0753:	H0040: 1 and L0766: 1.	H0040: 1	H0040: 1 and L0439:	H0040: 1	L0748: 3 and H0040:	H0040: 1		L0747: 2 and H0040:	H0040: 1 and L0591:	L0595: 2, H0040: 1 and L0794: 1.	L0748: 2 and H0040:	L0769: 2 and H0040:	1.		L0752: 2, H0040: 1
His-102 to Ser-108, Ala-132 to Gln-137.	Asn-24 to Asp-32.	Arg-18 to Trp-29.	Asp-1 to Gln-14, Phe-18 to Gly-33.	Tyr-1 to Tyr-12.			Asp-20 to Trp-37.				ı	Ser-4 to Lys-12.		Ile-15 to Phe-21,	Pro-31 to Cys-39, Pro-41 to Pro-49.	Leu-69 to Pro-74.	
	4459	4460	4461	4462	4463	4464	4465	4466	5348	4467	4468	4469	4470	4471			4472
1	367 - 170	11 - 202	3 - 203	125 - 256	175 - 435	186 - 311	367 - 627	65 - 262	151 - 342	632 - 787	252 - 440	111 - 230	220 - 420	73 - 294			435 - 632
	1772	1773	1774	1775	1776	1777	1778	1779	2661	1780	1781	1782	1783	1784			1785
	780164	925409	781590	530559	767520	530567	742377	717736	869717	671488	826343	509454	791413	965134			772735
	HTTBO82	HTTBM03	HTTBI80	HTTBH95	HTTBH75	нттвн36	HTTAQ60	HTTAP45		HTTAP21	HTTAP09	HTTAN34	HTTAJ93	HTTAH03			HTTAC77

7447
3 Asn-14 to Leu-20, Gln-30 to Pro-46.
4474
4475
4476 Gln-10 to Ser-16.
4477 Pro-8 to Ala-15,
Arg-23 to Glu-35, Pro-41 to Val-49.
4478
4479 Glu-33 to Arg-40.
1
4480 Lys-34 to Pro-40,
Glu-117 to Gly-124.
4481 Pro-42 to Ser-47,
Ala-51 to Arg-68,
Leu-109 to Gly-117
4482 Phe-10 to Pro-19,
Gly-107 to Arg-112,
Thr-128 to Lys-135.
5349 Ser-49 to Lys-58, Glu-75 to Pro-91.
4483 Gln-3 to Arg-10,

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and L0759: 1.	AR061: 1, AR089: 1 H0618: 1 and L0758: 1.	H0618: 1 and L0779:	L0769: 2 and H0618:	L0779: 3, L0758: 3, H0618: 1 and L0600: 1.	L0439: 3, L0753: 3, H0618: 1, L0741: 1, L0745: 1 and L0746: 1.	H0618: 1 and L0758: 1.	L0794: 2, H0618: 1 and L0768: 1.	L0439: 3 and H0253: 1.	H0253: 1 and L0767: 1.	AR089: 33, AR061: 18 L0748: 2 and H0253: 1.	H0253: 1
Leu-74 to Arg-80, Pro-87 to Cys-92, Ser-144 to Pro-158.	Glu-1 to Glu-6.		Ser-25 to Asn-32, His-40 to Glu-45.	Arg-14 to Gly-29.	Ser-1 to Lys-12, Met-22 to Gly-29, Pro-62 to Gly-69.	Glu-35 to Ile-51.	Glu-1 to His-15, Gly-21 to Cys-26, Thr-34 to Pro-42, Pro-49 to Glu-57.	,	Val-25 to Ala-31.	Ala-1 to Ala-35.	Gly-1 to Arg-13, Phe-19 to Arg-33.
	4484	4485	4486	4487	4488	4489	4490	4491	4492	4493	4494
	1 - 375	243 - 566	1 - 483	056 - 299	1 - 393	182 - 388	3 - 350	3 - 305	3 - 416	90 - 422	1 - 429
	1797	1798	1799	1800	1801	1802	1803	1804	1805	1806	1807
	945862	870172	963458	928245	782194	958304	870228	932882	671151	772363	573400
	нтинвэз	нтгнд63	HTLGS10	HTLGR32	HTLGP84	HTLGK08	HTLGC43	нтер92	HTLEP21	HTLEN77	HTLEM92

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	H0253: 1 and L0439: 1.	L0748: 2 and H0253: 1.	H0253: 1	H0253: 1, L0761: 1,	L0649: 1 and L0805: 1.	L0758: 3 and H0253:		H0253: 1	H0253: 1 and L0439:				H0253: 1	H0253: 1			H0253: 1 and L0768:	1.	H0253: 1	H0253: 1	H0253: 1	AR061: 2, AR089: 1	L0752: 3, L0747: 2,	H0294: 1, H0253: 1,
Glu-28 to Val-34, Trp-58 to Ser-64.	Thr-30 to Glu-35, Asp-101 to Gly-106, Ser-112 to Ser-117.	Thr-6 to Ser-11.	Ser-5 to Arg-17.	His-1 to Cys-8,	His-35 to Phe-40.	Glu-63 to Ala-68,	Gly-84 to Tyr-102.	Ala-28 to Trp-33.	Ser-13 to Gly-19,	Leu-22 to Asn-36,	Asn-57 to Ser-68,	Pro-82 to Trp-107.	Asp-72 to Leu-78.	Gly-6 to Thr-12,	Pro-28 to Arg-34,	Asn-39 to Asn-47.	Arg-50 to Trp-58.	,	Ala-14 to Asn-22.					
5350	4495	4496	4497	4498		4499	ļ	4500	4501				4502	4503			4504		4505	4506	4507	4508		
360 - 299	2 - 355	138 - 317	3 - 296-	109 - 261		3 - 308		1 - 132	2 - 448				1 - 285	23 - 199			152 - 382		3 - 143	6 - 218	50 - 250	1 - 282	٠	
2663	1808	1809	1810	1811		1812		1813	1814				1815	1816			1817		1818	1819	1820	1821		
792812	384492	751842	778180	961353		913669		715439	868533				572853	578921			921045		413333	530039	870290	751985		
ŕ	HTLEL16	HTLEG67	HTLDZ81	HTLDW27		HTLD001		HTLDG43	HTLDB18				HTLCZ79	HTLCX66			HTLC002		HTLCG65	HTLCG59	HTLCA03	нтгвн67		

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H0046: 1, H0040: 1, H0063: 1, H0494: 1, S0352: 1, L0769: 1, L0766: 1, L0804: 1, L0805: 1, L0791: 1, H0521: 1, L0779: 1, L0780: 1, L0731: 1 and L0758: 1.	L0758: 2 and H0253: 1.	H0253: 1, L0745: 1 and L0750: 1.	L0439: 3, L0438: 2, H0253: 1 and L0769: 1.	H0253: 1	H0253: 1	H0253: 1	H0253: 1 and L0439:		H0253: 1 and L0747: 1.	AR089: 1, AR061: 0	L0439: 2, L0021: 1, H0372: 1 L0769: 1	L0649: 1, L0748: 1,	L0485: 1, L0604: 1 and 1.0361: 1	H0616: 1
		His-1 to Trp-11, Lys-13 to Ser-27, Glu-33 to Ser-38.		Phe-2 to Arg-12.		Ala-1 to Trp-18.	Gln-32 to Leu-37,	Gin-65 to Val-70, Thr-73 to Pro-79.	Gly-1 to Thr-9.	Asp-28 to Leu-35, -	Asp-52 to Cys-57.			Ser-37 to Ser-43.
	4509	4510	4511	4512	4513	4514	4515		4516	4517	•			4518
	259 - 408	3 - 590	133 - 492	1 - 228	28 - 165	74 - 226	3 - 320		133 - 426	1 - 363				311 - 496
	1822	1823	1824	1825	1826	1827	1828		1829	1830				1831
·	954111	766270	986069	870300	683247	575343	732480		879168	920507				972746
	HTLBC07	HTLBB72	HTLAI30	HTLAF33	HTLAC61	HTLAC39	HTLAB55		HTLAB29	HTFBE02				HTEQS95

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H0616: 1		H0616: 1 and L0794:	AR061: 4 AR089: 1	L0758: 2 and H0616:		L0748: 2, H0616: 1	and L0747: 1.		L0758: 3 and H0616:		H0616: 1, L0519: 1,	L0748: 1 and L0779: 1.	AR061: 4, AR089: 1	L0758: 7, L0768: 2,	H0616: 1 and L0151: 1.		H0616: 1 and L0779:	H0616: 1 and L0774:	H0616: 1 and L0779:	L0758: 3, H0616: 1.	L0794: 1, L0791: 1 and	H0616: 1 and L0755:	
Pro-45 to Pro-50,	Arg-64 to Ser-77, Ile-88 to Ala-101.	Pro-71 to Cys-82.	Met-12 to Met-24.	Pro-46 to Tyr-52,	Arg-92 to Lys-97.	Val-48 to Gly-54,	Asp-63 to Arg-74,	Gly-87 to Leu-92.	Ala-1 to Met-6,	Gly-9 to Ser-15.	Leu-47 to Thr-59,	Pro-73 to Pro-87.	Tyr-1 to Lys-8,	Phe-19 to Ser-24,		Pro-54 to 1rp-70.		Lys-22 to Asp-27.	Leu-80 to Lys-86.	Asp-16 to Arg-23,		Glu-1 to Ser-10.	
4519		4520	4521			4522			4523		4524		4525				4526	4527	4528	4529		4530	
86 - 388		129 - 596	3 - 293			147 - 437			263 - 412		614 - 931		839 78				159 - 392	1 - 318	18 - 296	3 - 191		133 - 390	
1832		1833	1834			1835			1836		1837		1838				1839	1840	1841	1842		1843	
973426		870516	908528			958291			870559		870549		948475				948845	836721	870581	870588		933294	
HTEQS90		нтеороз	HTEQN83			HTEQB08			HTEPY28		HTEPV63		HTEPE35				HTEOY82	HTE0083	HTEOE28	HTENY44	,	HTENV06	

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L0755: 2 and H0616:				H0616: 1 and L0768:	L0731: 3, H0616: 1	and L0750: 1.							H0616: 1 and L0794:	1.	L0748: 2, H0616: 1,	L0439: 1 and L0740: 1.	H0616: 1				H0616: 1 and L0758:	1. H0616: 1 and 1.0362:					AR061: 5, AR089: 1
Arg-30 to Arg-37,	Asn-40 to Glu-46,	Leu-56 to Arg-64,	Ala-85 to Arg-102.	Thr-12 to Ile-17.	Ala-6 to Trp-19,	Leu-34 to Gln-39,	Asp-63 to Arg-76,	Thr-94 to Gly-105,	Asp-108 to Phe-113,	Lys-122 to Phe-128,	Asn-131 to Glu-136,	Arg-142 to Gly-147.	Tyr-2 to His-7.		Pro-43 to Ile-51.		Pro-29 to Thr-34,	Cys-42 to Ser-47,	Gln-52 to His-58,	Pro-68 to Cys-80.		Cvs-18 to Lvs-43.	Ser-45 to Leu-52,	Ser-63 to Ser-68,	Lys-75 to Arg-80,	His-113 to Lys-121.	Ser-38 to Pro-45.
4531				4532	4533								4534		4535		4536				4537	4538					4539
3 - 329				15 - 146	54 - 494	١				1	-		58 - 447		149 - 322		109 - 426				60 - 206	1 - 363		···········	•		1-318
1844	_			1845	1846								1847		1848		1849				1850	1851					1852
773925				870595	206067								958382		795314		974363				958380	880592					813038
HTENS74				HTENR26	HTENQ92		,						HTENP08		HTENL95		HTENL73				HTENA08	HTEMY05					HTEMV66

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H0616: 1 and L0758:	7, AR089:		L0758: 4 and H0616:	H0616: 1 and L0758:	H0616: 1 and L0439:	H0616: 1 and L0747:	H0616: 1, L0779: 1 and L0758: 1.	H0616: 1 and L0758:	H0616: 1 and L0748:	H0616: 1 and L0594:						H0616: 1, L0764: 1,
6: 1 a			8: 4 ar	6: 1 aı	6: 1 ar	6: 1 ar	6: 1, I 758: 1	6: 1 ar	6: 1 ar	6: 1 ar						6: 1, L
H061 1.	AR061: H0616:		L075	H061	H061	H061	H0616: 1, L and L0758: 1	H061	H061	H061	_;					H061
	2	12, 57.										•	3,	33,	47,	
	Ala-1 to Gln-7, Lys-24 to Ser-30, Pro-44 to Asn-53,	Glu-104 to Asp-112, Leu-152 to Ser-157.	Glu-3 to Cys-9, Gln-32 to Asp-45.			His-15 to Arg-22.	Arg-24 to Pro-30.	His-44 to Phe-49, Pro-53 to Pro-58.		Pro-28 to His-34,	Lys-51 to Arg-59,	Arg-66 to Phe-82,	Ala-106 to Gln-118,	Pro-123 to Leu-133,	Ala-137 to Glu-147, Aro-185 to I en-190	,ys-28,
	Ala-1 to Gln-7, Lys-24 to Ser-3 Pro-44 to Asn-	104 to 152 to	Glu-3 to Cys-9, Gln-32 to Asp-4			15 to A	24 to I	14 to P 53 to P		28 to F	51 to ⊿	66 to F	106 to	23 to	137 to	Thr-15 to Lys-28,
	Pro Pro		G G			His-	Arg-	His-/		Pro-	Lys-	Arg-	Ala-	Pro-]	Ala-J	Thr-
	4540		4541	4542	4543	4544	4545	4546	4547	4548	٠				÷	4549
	963	·	76	191	37-	178	573	374	20	41						967
	454 - 963		21 - 197	77 - 361	51 - 137	58 - 378	283 - 573	198 - 374	2 - 250	33 - 641						102 - 296
	1853		1854	1855	1856	1857	1858	1859	1860	1861						1862
	944419		915308	964769	775543	938396	870613	849214	787549	806421						952274
	HTEMU66		4S01	1058	IN80	IM91	AI51	fB57),Y90	V29						\neg
	HTEN		HTEMS01	HTEMO58	HTEMN80	HTEMM91	HTEMIS1	HTEMB57	HTELY90	HTELV29						HTELP07
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L0779: 1 and L0758: 1.	L0758: 2 and H0616:	.	L0794: 2, H0616: 1	and L0758: 1.	H0038: 1 and L0439:	1.	L0766: 2, H0038: 1,	L0637: 1, L0750: 1 and	L0590: 1.	AR051: 29, AR050:	21, AR054: 21, AR089:	11, AR061: 11	H0038: 1	H0038: 1 and L0756:	1 0750 0 1110000	LU/38: 4 and HUU38: 	H0038: 1 and L0743:	H0038: 1 and L0595:	····							
Gly-47 to Thr-54.	Pro-24 to Asn-37,	Asp-43 to 1 nr-49, Leu-63 to Gln-72.	Ala-48 to Lys-57,	Ser-75 to Phe-84.	His-1 to Lys-7.		Pro-43 to Asn-48.							Ala-5 to Arg-15.	Day 10 to DL 2 10	F10-19 to File-26.	Ser-5 to Cys-16, Glu-20 to Ile-25.			ı						
	4550		4551		4552		4553			4554				4555	7557	0004	4557	4558								
	63 - 329		185 - 451		43 - 657		68 - 286			83 - 391				105 = 428	02 241	147 - 76	282 - 401	1 - 279				. •				
	1863		1864		1865	,,,,,,	1866			1867				1868	1860	1001	1870	1871								
	954982		669816		754010	0,00,0	812862			942526		·		772397	703030	(5005)	717850	653252								
	HTELM71		HTELA02		HTEKU62	- ALLENANA	HIEKI02			HTEKH17				HTEKD77	HTFIV94		HTEJO46	HTEJN12								

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309530, 309585, 312040	07910,	107910,	09700,	114240,	34797,	134797,	34797,	51670,	00839,	601780,	602099	1		٠						,					
3.3.3	15q21.1-q21.2 107910,				-	<u> </u>		,	<u> </u>	<u>'</u>	<u>, yo</u>												1		
	L0748: 2 and H0038:			-		-					•	H0038: 1 and L0748:		1			L0779: 3, L0758: 2 and	H0038: 1.	H0038: 1 and L0366:	L0758: 4 and H0038:		H0038: 1 and L0754:	1.		
													Arg-1 to Arg-6,	Pro-17 to Ala-23,	Gly-33 to Gln-40,	Arg-45 to Arg-73.	Thr-1 to Glu-7,		Суѕ-33 to Asп-38.	Pro-31 to Arg-37,	Phe-39 to Ala-55.	Gly-1 to Glu-9,	Ile-12 to Lys-30,	Cys-34 to Lys-39,	GIU-55 to GID-62,
	4559											4560	5351				4561		4562	4563		4564	-		
	23 - 301				١				•			601 - 380	1-330				79 - 264		383 - 135	3 - 299		178 - 417			
	1872											1873	2664				1874		1875	1876		1877			
	696784					,						490772	870649				953801		887112	099028		684711			
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	H0038: 1, L0768: 1,	H0038: 1			H0038: 1	H0038: 1 and L0779:		H0038: 1	H0038: 1	L0748: 2 and H0038:	1.	H0038: 1, L0740: 1	and L0754: 1.	H0038: 1, L0779: 1	and L0758: 1.	L0758: 3, L0151: 2,	H0038: 1 and L0779: 1.	L0163: 1 and H0038:	1.	L0758: 3, L0776: 2,	L0779: 2 and H0038: 1.					L0439: 2 and H0038:	1.
Val-66 to Lys-72.		Asp-19 to Ser-25.	Ile-1 to Phe-9,	Gly-73 to Gly-82.	Gln-1 to Leu-6.	His-1 to Asp-9,	Lys-37 to Glu-45.	Gln-11 to Cys-18.	Pro-2 to Thr-13.	Glu-1 to Ser-18.		Gly-14 to Val-21,	Thr-25 to Leu-32.	Gln-9 to Ala-21,	Thr-24 to Thr-29.	Lys-30 to Leu-39,	Glu-42 to Ser-53.	Gly-10 to Arg-19.	, 10	Lys-1 to Arg-27,	Inr-42 to Met-57,	Gln-89 to Ala-95,	Asp-113 to Ser-119,	Thr-128 to Thr-156,	Phe-179 to Ser-187.	Ala-1 to Lys-10, Pro-20 to Sar 36	110-27 10 001-30,
	4565	4566	5352		4567	4568		4569	4570	4571		4572		4573		4574		4575	723,	42/0						4577	
	69 - 395	379 - 179	3 - 281		44 - 151	39 - 296		19 - 264	35 - 235	1 - 225		279 - 446		59 - 361		15 - 233		147 - 254	24.7	04 - /4/				-		173 - 388	
	1878	1879	2665		1880	1881		1882	1883	1884		1885		1886		1887		1888	1000	1007						1890	
	708304	491030	870667		395868	839966		870671	921926	734983	70000	/34976		967439		664436		964956	00000	070076		-				931017	
	HTEIL36	HTEIJ58			HTEID15	HTEIB38		HTEIB37	HTEIB03	HTEIA57	F-7.11.1.1.1.1	HIEHXS/		HTEHV11		HTEHS17	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	нівніі	HTECWOO	70 W D7711					_	HTEGUSS	

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	H0038: 1 and L0766:	AR089: 3, AR061: 2 L0439: 2 and H0038: 1.	H0038: 1 and L0755:	H0038: 1 and L0749:	H0038: 1	H0038: 1 and L0756: 1.	AR050: 9, AR051: AR054: 1	H0038: 1, L0750: 1 and L0755: 1.	H0038: 1, L0766: 1, L0789: 1 and L0749: 1	ı	L0591: 2, H0038: 1,	L0381: 1, L0779: 1 and L0758: 1.		H0038: 1, L0744: 1	and L0756: 1.	H0038: 1
Gly-46 to Ser-58, Ile-62 to Cvs-67.	Glu-13 to Ser-20, Pro-33 to Phe-38, Ser-41 to Lys-49.		Asp-26 to Trp-35.		Gly-5 to Gly-12.				Leu-25 to Asp-35, Ser-41 to Tyr-47,	Trp-72 to Pro-77, Lys-106 to Arg-112.	Pro-28 to Tyr-38,	Thr-40 to Lys-48, Val-61 to Thr-68.	Glu-74 to Gln-82.	Thr-6 to Gln-12.	To 1 to A lo 7	He-1 to Ata-/,
	4578	4579	4580	4581	4582	4583	4584		4585		4586			4587	4588	ı
1	130 - 600	3 - 452	272 - 457	74 - 325	3 - 221	2 - 97	3 - 581		3 - 353		133 - 408			150 - 464	2.256	007-7
	1891	1892	1893	1894	1895	1896	1897		1898		1899			1900	1001	1771
	932987	765901	732630	709420	545137	866069	887616		026999		719280			685383	530106	12201
	HTEGS24	HTEGJ74	HTEGJ56	HTEGI38	HTEGH60	HTEGC30	HTEFX90		HTEFU18		HTEFO46			HTEF028	HTFF1178	מיסחחזזז

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			1p21														,											2q37.2
	H0038: 1	H0038: 1	H0038: 1 and L0758:										•	•		•		H0038: 1	H0038: 1, L0756: 1	and L0758: 1.	H0038: 1, L'0794: 1	and L0758: 1.	L0748: 2 and H0038:	1. H0038-1	1,00001	H0038: 1	H0038: 1	L0601: 2 and H0038:
Arg-26 to Gly-38.		Glu-15 to Ser-20.	Ser-14 to Ser-25,	Leu-42 to Glu-62,	Ala-75 to Thr-84.													Pro-40 to Leu-50, Ser-64 to Gln-74.	Thr-20 to His-29,	Pro-31 to Ser-38.			Ser-11 to Arg-19.				•	Thr-48 to Ser-53,
	4589	4590	4591															4592	4593		4594		4595	4506	200	4597	4598	4599
	2 - 115	99 - 227	2 - 280												•			76 - 303	206 - 373		123 - 341		151 - 288	123 - 260	222 221	114 - 344	1 - 204	86 - 511
	1902	1903	1904											-				1905	1906		1907		1908	1909		1910	1911	1912
	707717	575476	530203					,										530200	120529		677513		780161	530201	030200	058/76	925353	881958
	HTEEU35	HTEEU27	HTEEU18															HTEEU17	HTEET22		HTEEF25		HTEEB82	HTEDX39	TTTTT		HTEDX03	HTEDW96 881958

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	H0038-1	H0038: 1 and L0749:	H0038: 1 and L0756:	H0038: 1	H0038: 1 and L0779:	1.	H0038: 1 and L0740:	H0038: 1	H0038: 1	H0038: 1	H0038: 1	AR061: 3, AR089: 1	H0038: 1	H0038: 1	AR061: 6, AR089: 4	H0038: 1	H0038: 1	H0038: 1	H0038: 1		AR050: 42, AR054:
Gly-63 to Arg-68, Gly-77 to Trp-85, Gln-99 to Gly-112,	Glv-17 to Glu-29	Ser-47 to Phe-57.	Gly-22 to Arg-28.									Phe-1 to Pro-7,	Trp-32 to Thr-39.	Gly-2 to Ile-13.	Leu-56 to Leu-63,	Gly-103 to Arg-108.	Asn-1 to Gly-17.	Pro-67 to Glv-75.	Ile-1 to Lys-9.	Pro-88 to Lys-100.	
	4600	4601	4602	4603	4604	4605	4606	4607	4608	4609	4610	4611		4612	4613		4614	4615	4616		4617
	1 - 213	86 - 322	2-253_	147 - 509	625 - 170	60 - 197	137 - 283	3 - 143	29 - 322	233 - 409	92 - 229	3-311		3 - 170	18 - 353		1 - 249	80 - 385	2 - 361		162 - 371
	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924		1925	1926		1927	1928	1929		1930
	530448	785818	727362	934047	960645	767024	766343	522827	508086	522969	961028	909162		522940	615250		522936	522938	869427		890715
	1	HTEDV86	HTEDU53	HTEDS40	HTEDS06	HTEDO75	HTEDK72	HTEDJ92	HTEDJ63	HTEDI09	HTEDI01	нтерн90		HTEDH76	HTEDH42		HTEDH30	HTEDH17	HTEDH06		HTEDG75

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		113900,	126340,	126391,	130410,	134790,	138570,	160900,	173850,	258501,	600040,	602225,	602225													
		19q13.3	ı	1		,	,		,															,		
35, AR051: 33 H0038: 1	H0038: 1	H0038: 1	•		-									H0038: 1	H0038: 1			AR061: 8, AR089: 3	L0758: 2 and H0038:	1		H0038: 1	H0038: 1		H0038: 1 and L0750:	-
-	Asn-1 to Arg-8, Leu-18 to Asp-23, Glu-84 to His-89.	Leu-22 to Arg-34.		•										Ile-1 to Gln-11.	Glu-1 to Gln-7,	Arg-16 to Asp-30,	Pro-35 to Asn-43.	Pro-2 to Trp-7,	His-28 to Gly-35,	Pro-37 to Gly-56,	Gly-68 to Lys-75.	Gly-36 to Gly-52.	Ala-22 to Gly-30,	Asn-36 to Ala-43.	Ser-30 to Arg-36.	
	4618	4619												4620	4621	•		4622		***		4623	4624		4625	
	1 - 396	1 - 174		1				1						2 - 277	1 - 369			1 - 303				26 - 196	1 - 369		85 - 471	
	1931	1932		,										1933	1934			1935	-			1936	1937		1938	
	519947	614726								-				116775	742368			908406				522997	523002		789732	
	HTEDG26	HTEDF96			1					-	•		Transfer I	HIEDF/0	HIEDF60			HTEDF22				HTECE66	HTECE62		HTECE61	

					26650,	126650,	54276,	173360,	173360,)2136,	602136,	602136,	602447			ř					7						
				1	7q11-q22		11	<u> </u>	<u></u>	<u> </u>	<u>)9</u>	<u>)</u>	9														
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Leu-30 to Arg-40.	Ser-37 to Gly-49.		Ile-1 to Ser-8,	Pro-13 to Ser-19, Gly-31 to Ile-41.	Val-28 to Cys-55,	Arg-71 to Cys-90,	Pro-102 to Pro-107.								Ala-28 to Ser-43,	Ala-57 to Tyr-64.	-	Ala-10 to Thr-18.	Pro-23 to Val-32	Ala-54 to Ala-60,	Thr-68 to Gly-73.	Glu-39 to Cys-57.	Phe-1 to Gly-10,	Leu-32 to Cys-39	Ser-21 to Ser-29,	Ala-31 to Thr-37.	Arg-1 to Pro-6.
4626	4627	4628	4629		4630									4631	4632		4633	4634	4635			4636	4637		4638		4639
85 - 282	63 - 401	33 - 203	2 - 154		1 - 330									246 - 356	2-211		144 - 341	3 - 119	3 - 251			3 - 173	20 - 142		74 - 202		3-365
1939	1940	1941	1942		1943									1944	1945		1946	1947	1948			1949	1950		1951		1952
870723	650885	508104	960428		527210									527214	527203		533795	527209	523029			508142	508124		508144		629829
HTECE51	HTECE39	HTECE31	HTECE08		HTECD94									HTECD88	HTECD70		HTECD65	HTECD56	HTECD15			HTECC71	HTECC45		HTECC26		HTECC09

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H0038: 1	H0038: 1	H0038: 1		H0038: 1	L0754: 2 and H0038:	1.	H0038: 1		H0038: 1	H0038: 1	1.00001	,	H0038: 1 and L0748:	1.	H0038: 1 and L0758:	L0758: 3. L0666: 2.	L0021: 1. H0038: 1 and	L0665: 1.	L0439: 2, L0717: 1,	H0038: 1, L0769: 1,	L0772: 1, L0800: 1,	L0666: 1, L0758: 1 and	L0601: 1.	L0439: 4 and H0038:
		Ile-4 to Lys-23,	Arg-8/ to Cys-103.	Gly-9 to Leu-17, Arg-38 to Glu-44.			Gly-42 to Gln-53,	Ten-0/ 10 GIU-/0.	Glu-16 to Lys-21, Met-25 to Tyr-32.	Pro-7 to Circ. 13	Glu-41 to Tm-46.	Ser-60 to Gln-65.			Glu-7 to Gly-14.	Ala-7 to Val-13,	Pro-15 to Val-21.			4				Ser-8 to Asn-19.
	. 4640	4641		4642	4643		4644		4645	4646			4647		4648	4649			4650	•				4651
	2 - 151	56 - 439		105 - 236	559 - 744		3-266		78 - 230	110 - 367			123 - 299		23 - 346	134 - 394			151 - 462					371 - 144
	1953	1954		1955	1956		1957		1958	1959	•		1960		1961	1962			1963					1964
	960439	508135		508132	728811		715704		503275	578544			921321		870732	960792			679394					503295
	·HTECC08	HTECA44	THE POST OF THE	H1ECA39	HTEBP54		HTEB043	-0, (4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4	HIEBM87	HTEBL53			HTEBJ02	O. A. C.	60H8H1H	HTEAX06			HTEAV22					HTEAU39

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L0758: 5, H0038: 1 and L0768: 1.	H0038: 1 and L0758: 1.	H0038: 1	L0740: 3, L0731: 3,	L0748: 2, L0757: 2 and	H0038: 1.	H0038: 1		H0038: 1	L0748: 2 and H0038:	<u></u>	H0038: 1 and L0766:	1.	H0038: 1 and L0758:	<u>.</u>	L0758: 2 and H0038:	-		H0546: 1, L0598: 1	and L0759: 1.	H0546: 1 and L0757:	1.	H0546: 1 and L0756:	H0546: 1	
		Ser-19 to Trp-27.	Asn-14 to Gln-20,	Arg-28 to Glu-40.		Phe-10 to Ser-16,	Ser-24 to Gly-50.		Ala-15 to Leu-24,	Pro-32 to Cys-41.			Ser-17 to Cys-23,	Pro-25 to Ala-32.	Arg-20 to Tyr-28,	Phe-31 to Arg-38,	Asp-44 to Arg-51.	Arg-17 to Gly-22.		Ala-26 to Pro-31.		Phe-1 to Asn-9.	Leu-15 to Phe-35,	Pro-52 to Ser-58.
4652	4653	4654	4655			4656		4657	4658		4659		4660		4661			4662		4663		4664	4665	
45 - 311	79 - 324	373 - 230	3 - 398	_	١	216 - 434		145 - 336	146 - 268		17 - 172		7 - 324		106 - 348			87 - 218		3 - 380		12 - 152	15 - 404	
1965	1966	1967	1968			1969		1970	1971		1972		1973		1974			1975		1976		1977	1978	
667184	921323	503298	732562			503533		503546	503623		960469		724751		925522			708291		867537		412991	953051	
HTEAT17	HTEAS02	HTEAR93	HTEAQ55			HTEAJ96		HTEAH75	HTEAG47		HTEAG08		HTEAB50		HTEAA04			HSWBY36		HSWBT69		HSWBE29	HSWAS65	

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109270,	109270,	113705,	113705,	144200,	148065,	148066,	148066,	148067,	148067,	148069,	148080,	154275,	168610,	171190,	176705,	185800,	200350,	221820,	232200,	249000,	252920,	253250,	600119,	600119,	601363,	601844		
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107741,	113900,	122720,	122720,	126340,	126391,	160900	166731	173010	1/3850,	207750,	248600,	258501			 120110,	121014,	142470,	156225,	164200,	164200,	601316,	601410,	601757						
19q13.2		.													6q22.1-q22.3	•	,						•					•	
H0546: 1													H0546: 1	H0383: 1 and L0589:	S0174: 1 and L0755: 1. 6q22.1-q22.3							1		S0044: 1 and L0748: 1.	L0749: 4, L0748: 2 and	S0044: 1.	L0754: 2 and S0044: 1.		L0731: 2, S0044: 1 and
Asn-19 to Asp-30.													I		 Pro-20 to Ser-27.			ı		•				Lys-9 to Pro-14.	I	SC		Pro-34 to Val-40.	Cys-1 to Asn-16,
4667			•	•									4668	4669	4670					-		-		4671	4672		4673		4674
61 - 222													194 - 418	71 - 427	155 - 349	*************************************								141 - 533	168 - 452		166 - 291		17 - 397
1980													1981	1982	1983									1984	1985		1986		1987
471236											-		697856	936026	727294									839559	924978		785710		789170
HSWAR63														HPWTA06	HPWSA52									HPWDK45	HPWDF03		HPWDE86	\neg	HPWCJ90

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L0749: 1.			S0044: 1				S0044: 1 and L0608: 1.	S0044: 1 and L0581: 1.		•	S0044: 1 and L0752: 1.		S0044: 1 and L0439: 1.	S0044: 1	L0748: 2 and S0044: 1		,	S0044: 1	-		•	S0044: 1	S0013: 1 and L0756: 1.	L0748: 2, S0013: 1 and	L0743: 1.	S0013: 1 and L0740: 1.	S0013: 1	S0013: 1 and L0746: 1.
Thr-20 to Asp-44,	Ser-47 to Asn-54,	Fire-oo to Arg-93.	Ser-25 to Glu-33,	Ser-58 to His-68.	Ser-25 to Glu-33,	Ser-58 to His-68.	Asn-32 to Thr-40.	Arg-1 to Ile-6,	Pro-9 to Met-16,	Gly-32 to Arg-37.	Ser-21 to Pro-29,	Leu-42 to Ser-52.	Gln-1 to Gly-11.		Pro-1 to Pro-9,	Ser-36 to Gly-43,	Leu-48 to Gln-62.	Pro-13 to Arg-23,	Pro-41 to Trp-53,	Pro-56 to Lys-65.	,	Arg-28 to Pro-42.		Asp-9 to Phe-18,	Pro-44 to Trp-52.	His-42 to Lys-52.		
		1474	46/2		5353		4676	4677			4678		4679	4680	4681			4682			5354	4683	4684	4685		4686	4687	4688
		100 100	401 - 171		585 - 319		36 - 164	251 - 520			73 - 258		73 - 219	72 - 215	2 - 250			201 - 1			27 - 275	19 - 165	2 - 178	351 - 614		2 - 637	18 - 155	88 - 261
		1000	1988		2666		1989	1990			1991		1992	1993	1994			1995			7997	1996	1997	1998		1999	2000	2001
		230162	020133		812707		707514	720563			676323		535157	575271	932627			468246			867315	819869	829301	848632		773298	526124	961017
		UDWINGS	CSDO WITH					HPWBE47			HPWAT23		HPWAJ85	HPWAJ39	HPWAI05	,		HPWAH19				HPWAG31		HPVAH41		_7		HPVAB01

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			4													
H0212: 1, L0750: 1 and L0777: 1.	L0605: 2, H0212: 1 and L0748: 1.	L0777: 4, H0212: 1, L0809: 1, L0664: 1 and L0750: 1	H0032: 1 and L0748:	L0731: 2 and H0032:	H0032: 1, L0761: 1	H0032: 1	H0032: 1 and L0756:	H0032: 1	H0032: 1 and L0439: 1.	H0032: 1 and L0748:	H0032: 1	H0032: 1			H0032: 1	
Gly-27 to Glu-33, Cys-46 to Lys-53.			Ser-1 to Thr-9.			Lys-11 to Ser-19, Lys-72 to Gln-78.	Lys-4 to Val-12, Ser-23 to Ser-39.		Glu-41 to Ser-46.	lle-1 to Arg-6, Val-27 to Gly-32,	Arg-6 to Leu-15.	Gln-14 to Tyr-19.	Arg-22 to Asp-27,	Gln-36 to Glu-42,	Cys-73 to Lys-82.	
4689	4690	4691	4692	4693	4694	4695	4696	4697	4698	4699	4700	4701	5355		4702	5356
391 - 549	91 - 351	81 - 470	296 - 472	37 - 177	2 - 166	45 - 278	3 - 248	2 - 298	175 - 462	2 - 115	99 - 236	142 - 315	205 - 11		200 - 454	484 - 320
2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2668		2015	5669
753933	728812	667652	320393	780264	925420	973740	766311	764710	719340	967762	526623	917289	919513		467480	486123
HPRT165	HPRTI54	HPRTI16	HPRCV66	HPRCT83	HPRCN03	HPRCM12	HPRCL72	HPRCI73	HPRCG46	HPRCD11	HPRCC22	HPRCA02			HPRBN23	

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	19p13.3-p13.2108725, 120700, 133171.	136836,	145981,	14/141, 147670,	147670,	147670,	164953,	188070,	231670,	600276,	600957,	601238,	601843,	601846,	602216,		•				-
,	H0032: 1 and L0731: 1.															H0032: 1 and L0748:	1.	L0439: 3 and H0032: 1.	L0756: 3, L0747: 2,	L0749: 2, H0032: 1 and L0748: 1.	
	Met-1 to Asn-9.	. ,											•			Ser-21 to Gln-27.			Glu-18 to Val-30.		
5357	4703															4704		4705	4706		5358
106 - 282	93 - 227									1						183 - 344		1 - 384	338 - 210		373 - 543
2670	2016															2017		2018	2019		2671
867409	695116															781636		781637	503140		503152
	HPRB187															HPRBH80		HPRAV80	HPRAN56		

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H0032: 1	H0032: 1	H0032: 1 and L0749:	H0032: 1			H0032: 1	S0004: 1	H0111: 1 and L0766:	H0111: 1 and L0750:	L0754: 2, H0644: 1, L0747: 1 and L0750: 1.	H0644: 1 and L0755:	H0644: 1 and L0777:	H0644: 1 and L0748:	L0748: 4 and H0644: 1.	H0644: 1 and L0748:	H0644: 1 and L0462: 1.
	Ser-19 to Cys-35.		Gly-7 to Thr-27, Pro-60 to Gln-66.	Ile-1 to Ser-8,	Arg-9 to Tyr-14.	Thr-13 to Met-23.	Ala-1 to Gln-7.	Lys-13 to Lys-18.		Ser-14 to Arg-19, Glu-43 to Ser-54.	ı	Gln-48 to Asp-65.	Asn-8 to Asp-28.	Lys-15 to Leu-25, Met-29 to Leu-43.	His-4 to Arg-20.	Ser-42 to Ser-52.
4707	4708	4709	4710	5359	5360	4711	4712	4713	4714	4715	4716	4717	4718	4719	4720	4721
300 - 196	3 - 197	267 - 584	281 - 84	3 - 365	1 - 57	2 - 232	2 - 406	192 - 368	30 - 206	558 - 746	105 - 299	3 - 248	87 - 257	242 - 487	2 - 259	277 - 516
2020	2021	2022	2023	2672	2673	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
724753	766496	764757	484691	939849	939850	784594	789290	796839	707476	928283	957945	933895	930874	969483	600856	965636
HPRAN50	HPRAJ75	HPRAG73	HPRAG45			HPRAF86	HPOAB37	HPMSH94	HPMSB35	HPMMK05	HPMMB08	HPMKP06	HPMKC05	HPMJT12	HPMJN08	HPMJK11

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			14			,												
H0644: 1 and L0700:	H0644: 1 and L0774:	H0644: 1, L0606: 1 and L0749: 1.	L0745: 4 and H0644:-	H0031: 1				H0031: 1 and L0756:	H0031: 1 and L0756:	L0748: 6, H0031: 1.	L0747: 1, L0756: 1 and L0596: 1.	H0031: 1	H0031: 1 and L0748:			L0747: 2 and H0031:	H0031: 1	L0770: 2, L0779: 2, H0031: 1, L0766: 1,
	Gln-7 to Gly-18, Asp-21 to Met-28.	Tyr-39 to Arg-56.		Glu-36 to Ala-43,	Ten-20 to Ara-26	Ala-38 to Thr-43,	Trp-90 to Ala-96.	Pro-18 to Glu-24.	1	Thr-1 to Ser-6,	Glu-49 to Phe-63.	Lys-28 to Ser-33.	Gln-6 to Gly-11,	Phe-21 to Thr-30,	Arg-50 to Thr-63.			Pro-41 to Ala-63, Gly-69 to Gly-81.
4722	4723	4724	4725	4726	5361			4727	4728	4729	•	4730	4731			4732	4733	4734
293 - 436	61 - 381	169 - 2	1 - 327	346 - 158	63 - 350	,		178 - 378	267 - 440	865 - 1128		85 - 195	177 - 380			6 - 161	203 - 592	112 - 576
2035	2036	2037	2038	2039	2674			2040	2041	2042		2043	2044			2045	2046	2047
867615	965627	939682	965628	491004	881472			660374	463906	705460		662021	694518			690704	867670	920327
HPMJK03	HPMJI11	HPMJE06	HPMJA11	HPMGX92				HPMGR15	HPMGO88	HPMGM39		, ,	HPMGD63			HPMFX29	HPMFL73	HPMFC02

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L0776: 1 and L0758: 1.	H0031: 1 and L0747: 1.	L0604: 3 and H0031: 1.	L0794: 2 and H0031:	1.			L0794: 2, H0031: 1	and L0779: 1.	-		H0031: 1 and L0455:	L0439: 2 and H0031:	L0748: 3, H0031: 1 - and L0731: 1.	H0031: 1 and L0745:	H0031: 1		•	H0031: 1 and L0748:	H0031: 1	H0031: 1	H0031: 1 and L0740:
	Gly-4 to His-11, Val-61 to Gly-67.	Leu-21 to Val-36, Pro-38 to Gln-44.	Arg-1 to Phe-9,	Arg-69 to Gln-83,	Lys-85 to Leu-103,	Val-117 to His-122.	Gly-1 to Gln-7,	Gly-21 to Val-26,	Arg-47 to Arg-55,	Lys-/1 to Ala-//.	_	Lys-42 to Ile-50.		Ser-2 to Tyr-15.	Leu-7 to Leu-12,	Asn-14 to His-27,	Pro-30 to Lys-37.		Arg-27 to Thr-46.		Lys-1 to Lys-8.
	4735	4736	4737				4738				4739	4740	4741	4742	4743			4744	4745	4746	4747
	2 - 361	214 - 366	1 - 390		١		1 - 258		•		1-111	150 - 1	629 - 426	2 - 169	323 - 442			156 - 410	2 - 154	215 - 63	84 - 233
	2048	2049	2050				2051				2052	2053	2054	2055	2056			2057	2058	2059	2060
	867674	772503	28028				968350				954567	791407	772740	764752	203690			781518	572808	368898	783344
	HPMFB26	HPMEG77	нРМDQ89			•	HPMDP10				HPMDF06	HPMAM93	HPMAL77	HPMAL73	HPMAK71			HPMAJ83	HPMAI80	HPMAI10	HPMAH85

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																				-	
	H0031: 1	H0031: 1 and L0758:	H0030: 1 and L0595:		_		L0777: 2 and H0030:	H0030: 1 and L0754:		H0030: 1 and L0758:	L0747: 2 and H0030:		H0030: 1 and L0754:	H0030: 1 and L0751:	H0030: 1 and 1 0756:		L0518: 2, H0030: 1 and L0740: 1.	H0030: 1, L0747: 1	and L0750: 1.		H0030: 1 and L0748:
1.	H00	Pro-3 to Gly-11, H00 Ser-43 to Leu-55. 1.			Thr-62 to Ser-73,	Pro-80 to Leu-85.	L07		Gly-33 to Gln-38. 1.	Ile-36 to Gly-47. H00	Pro-16 to Ser-23. L07.		Lys-6 to Asn-12. H00	Leu-30 to Cys-39. H00	Glu-4 to Arg-9 H00	1. 1.	Lys-22 to Ser-39. L05	Ser-7 to Gly-15, H00	<u></u>	Thr-96 to Gly-101, Gly-109 to Are-133	
	4748	4749 Pro	4750 Glu	Clu	Thr	Pro	4751	4752 Pro-	Gly	4753 Ile-:	4754 Pro-	T	4755 Lys	4756 Leu	4757 Glu		4758 Lys-	4759 Ser-	Pro-	17-17- -7-17-	4760 His-
	156 - 296	3 - 221	3 - 278				338 - 499	179 - 343		283 - 450	359 - 559	•	18 - 155	202 - 348	144 - 326		745 - 491	85 - 489			197 - 3
	\perp	2062	2063		•		2064	2065		2066	2067		2068	2069	2070		2071	2072			2073
		968723	679217				921331	731065		728517	712707		69096/	787208	781854		975477	727885			715732
	HPMAH56	HPMAB10	HPLBW22				HPLBW02	HPLBT54		HPLBT53	HPLBS41		96) 97) 97)	HPLBO90	HPLBN79		HPLBB47	HPLAX14			HPLAV44

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1	H0030: 1, L0517: 1, L0740: 1, L0754: 1, L0777: 1, L0755: 1 and L0758: 1.		L0783: 1, L0809: 1 and S0152: 1.	AR061: 4, AR089: 1 S0152: 1 and L0601: 1.	S0152: 1 and L0439: 1.	L0717: 1, S0152: 1 and 10756: 1	L0435: 1, S0152: 1,	S0152: 1 and L0745: 1.	S0152: 1	S0152: 1 and L0604: 1.	S0152: 1 and L0759: 1.	L0532: 1 and S0152: 1.	AR054: 38, AR051:	29, AR050: 28 S0152: 1	S0152: 1 and L0779: 1.	AR061: 6, AR089: 2	S0152: 1
	Ser-14 to Phe-20.	Leu-3 to Lys-8, Arg-27 to Ser-34, Leu-45 to Lys-55.	Gln-9 to Ala-15.			Lys-35 to Lys-42.	Glu-8 to Cys-16.	Pro-26 to Phe-35.	,					,	Asn-17 to Met-22.		Gln-20 to Lys-28, Pro-35 to Ser-44
	4761	5362	4762	4763	4764	4765	4766	4767	4768	4769	4770	4771	4772		4773	4774	
	54 - 461	659 - 372	466 - 341	82 - 408	209 - 352	136 - 327	19 - 318	50 - 220	19 - 198	44 - 406	177 - 392	155 - 301	280 - 417		212 - 358	246 - 506	
	2074	2675	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085		2086	2087	
	202896	968711	963322	929723	928408	965894	198658	918315	974074	867759	922815	949149	889928		915056	182156	
	HPLAI10		HPJFA10	HPJEV95	HPJEU01	HPJET11	HPJES17	HPJEL02	HPJEG53	HPJDW93	HPJDT03	HPJDP54	HPJDF61		HPJDC01	HPJDA25	

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	L0667: 1 and S0152: 1.	S0152: 1 and L0605: 1.	AR054: 34 S0152: 1	S0152: 1	S0152: 1		,			S0152: 1	AR051: 17, AR050: 9,		S0152: 1	L0758: 3, L0779: 2 and	S0152: 1.	L0748: 2 and S0152: 1.	L0439: 2 and S0152: 1.	S0152: 1 and L0592: 1.	S0152: 1 and L0743: 1.	S0152: 1 and L0748: 1.	S0152: 1, L0740: 1 and	L0750: 1.	L0752: 7, L0780: 2,	L0586: 1 and S0152: 1.	S0152: 1	
		Thr-2 to Asn-8, Asn-49 to Ser-54.	Arg-1 to Gly-7.	Ser-33 to Lys-41.	Pro-10 to Ser-17,	Ser-19 to Arg-24,	Pro-43 to Glu-50,	Arg-56 to Phe-64,	Pro-74 to His-87.	Val-23 to Leu-31.	Ile-20 to Trp-33,	Thr-35 to Gly-45.		Glu-11 to His-16.			Arg-14 to Cys-22.	-	Phe-2 to Asp-8.	-			Tyr-10 to Leu-15,	Glu-32 to Gly-41.	His-15 to Gln-26,	Ser-38 to Asn-46.
5363	4775	4776	4777	4778	4779					4780	4781			4782		4783	4784	4785	4786	4787	4788	-	4789		4790	
252 - 13	1 - 195	148 - 396	210 - 635	3 - 227	62 - 322-				,	179 - 274	1 - 210			458 - 291		137 - 373	3 - 182	310 - 591	141 - 518	64 - 546	340 - 546		354 - 145		17 - 154	
2676	2088	2089	2090	2091	2092				i	2093	2094			2095		2096	2097	2098	2099	2100	2101		2102		2103	
951284	928407	494874	559949	975087	715082					699046	009288			670083		710928	625362	765390	726535	867818	688692		948721		974606	
	HPJCU29	HPJCT81	HPJCT26	HPJCS73	HPJCS43					HPJCS32	HPJCN60			HPJCL55		HPJBU40	HPJBU09	HPJBS74	HPJBS52	HPJBS35	HPJBL76		HPJBL30		HPJBK25	

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S0152: 1		L0754: 2 and S0152: 1	S0152: 1	,				S0152: 1 and L0748: 1.	AR050: 26, AR051:	20, AR054: 10	S0152: 1	AR061: 2, AR089: 1	S0152: 1	1	•	S0152: 1	S0152: 1	S0152: 1	S0152: 1 and L0439: 1.	L0439: 2 and S0152: 1.	S0152: 1					AR051: 32, AR050:
Pro-8 to Leu-18,	Dro-56 to Trp-63,	Ser-7 to Lvs-12.		Ser-41 to Trp-46,	Cys-57 to Gln-68,	Tyr-79 to Gly-84.						Ser-2 to Arg-7.		Gln-10 to Leu-26.		Pro-75 to Phe-84.			Thr-31 to Glu-37.	Ser-42 to Lys-48.	Leu-17 to Asn-31,	Gly-55 to Ala-62,	Arg-66 to Ala-87.			Leu-62 to Ser-75.
4791		4792	4793	5364			5365	4794	4795		•	4796		2366	5367	4797	4798	4799	4800	4801	4802				2007	4803
2 - 331		252 - 404	762 - 544	104 - 370	1	· ·	643 - 1290	170 - 319	164 - 322	·		716 - 531		865 - 1110	127 - 612	096 - 62	3 - 176	65 - 166	476 - 652	193 - 2	3 - 278				0.00	20 - 310
2104		2105	2106	2677			2678	2107	2108			2109		2679	2680	2110	2111	2112	2113	2114	2115				2116	2110
974593		717088	607408	884685			885717	806718	887830			824243		892302	945194	754858	751384	734503	000699	725761	419786				007017	88/81/
HPJBK14	,	HPJBH45	HPJAX30					HPJAU73	HPJAP92			HPJA013				HPJAN69	1	_	HPJAJ20	HPJAE51	HPJAA27				1	HEICGS

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						120435,	120435,	126600,	135300,	136435,	152790,	152790,	157170,	182601,	278300,	601071,	601771,	602134					
						2p22-p21	1										•			1			
26, AR054: 17 S0150: 1	S0150: 1, L0439: 1 and L0740: 1.	L0439: 2, L0756: 2, S0150: 1 and L0438: 1.	S0150: 1, L0748: 1 and L0439: 1.	L0439: 3, S0150: 1, L0740: 1 and L0749: 1.	S0150: 1 and L0748: 1.	S0150: 1 and L0748: 1. 2p22-p21	•		•								ı		S0150: 1 and L0751: 1.	S0150: 1	S0150: 1	S0150: 1	S0150: 1
				Lys-79 to Phe-85.	Glu-7 to Ser-13.	Val-3 to Gly-14,	Ser-65 to Gly-72.						ı					1	Ser-49 to Pro-54, Pro-60 to His-70.				
	4804	4805	4806	4807	4808	4809													4810	4811	4812	4813	4814
1	607 - 816	296 - 517	123 - 362	213 - 473	1 - 135 .	169 - 420				1									1 - 285	77 - 178	47 - 247	1 - 186	182 - 289
	2117	2118	2119	2120	2121	2122													2123	2124	2125	2126	2127
	935095	708183	743135	786741	867845	838809													785971	867850	715037	698901	688489
	HPICE06	HPIBY36	HPIBT62	HPIBO89	HPIBI89	HPBH31												,	HPIBC93	HPIBB45	HPIBB43	HPIBB32	HPBB19

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				1									164731,	172400,	172400,	180901,	180901,	221770,	248600,	600918,	602716					
													19913.1													·
L0748: 2 and S0150: 1.	L0717: 2 and S0150: 1.	•			AR089: 18, AR061: 9	S0150: 1	L0439: 6 and S0150: 1.	S0150: 1 and L0365: 1.		S0176: 1	S0176: 1	S0176: 1	S0148: 1 and L0748: 1. 19q13.1					-				H0674: 1 and L0362:	H0674: 1 and L0363:	•	H0169: 1 and L0766:	H0169: 1 and L0747:
Ala-6 to Ser-25.	Cys-19 to Trp-24,	Ser-29 to Glu-34,	Phe-47 to Trp-52,	Arg-57 to Gly-68.	Gly-36 to Thr-41.	,	Asp-7 to Thr-15.	Lys-91 to Pro-96.		Val-33 to Lys-39.								1					Lys-2 to Lys-10.			Pro-108 to Gly-113.
4815	4816				4817		4818	4819	5368	4820	4821	4822	4823									4824	4825		4826	4827
223 - 426	41 - 322				185 - 436		102 - 476	547 - 834	172 - 35	157 - 273	52 - 189	3 - 209	417 - 127		,						•	1 - 120	414 - 683		398 - 583	3 - 341
2128	2129				2130		2131	2132	2681	2133	2134	2135	2136									2137	2138		2139	2140
790033	935111				973604		774817	286906	961313	790313	671118	793084	778036									933696	961758		709302	780198
HPIAW91	HPIAV06				HPIAQ70		HPIAP79	HPIAD10		HPHSB91	HPHSB21	HPHSA94	HPHAE81									HPFMG06	HPFMB10		HPFDX38	HPFCZ82

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1	H0169: 1 and L0740: 1.	H0169: 1	H0169: 1, L0809: 1 and L0754: 1.	AR050: 7, AR054: 3,	AR051: 1 H0169: 1	AR050: 20, AR051: 4,	AR054: 4	H0169: 1	H0169: 1, L0766: 1,	L0776: 1, L0790: 1,	L0741: 1 and L0779: 1.	L0598: 2, H0169: 1	and L0731: 1.	H0169: 1 and L0777:	L0752: 2, H0169: 1	L0794: 1 and L0751: 1.	H0169: 1 and L0748:	1. 1 0748. 2 and H0160.	1.	H0673: 1, L0805: 1	and L0731: 1.	
			Thr-52 to Tyr-57.	Pro-24 to Gly-44,	Pro-47 to Tyr-56.								1	Cys-6 to His-17.			Gly-33 to Arg-39.	Glv. 18 to His. 30	O1)-10 to 1115-50.	Gly-18 to Glu-29,	Leu-55 to Gln-60,	His-109 to Gly-117, Glv-127
	4828	4829	4830	4831		4832			4833			4834		4835	4836		4837	4838	0001	4839		
	298 - 444	33 - 272	93 - 263	435 - 632	1	138 - 245			72 - 251			178 - 294		20 - 187	56 - 274	ï	94 - 261	151 - 393	101 - 101	231 - 623		
	2141	2142	2143	2144		2145			2146			2147		2148	2149		2150	2151	1017	. 2152		
	430125	968360	675120	867881	,	526574			723501	_		860289		732601	867889	-	921196	078677	7 007	969248		
	HPFCZ60	HPFCZ10	HPFCR23	HPFCP82	,	HPFCP53			HPFCM45			HPFCM27		HPFCL56	HPFCL24		HPFCG02	HPFCA01		HPELD12		

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L0748: 2, H0673: 1	H0673: 1 1 0760: 1	and L0768: 1.	H0166: 1	H0166: 1	H0166: 1	H0166: 1		H0166: 1	H0166: 1	H0166: 1	H0166: 1	H0166: 1, L0748: 1	and L0747: 1.	L0770: 2, H0166: 1,	L0665: 1 and L0749: 1.	H0166: 1 and L0745:	1.	L0759: 2 and H0166:	1.		H0166: 1 and L0542:	1.	AR061: 57, AR089: 38	H0166: 1 and L0749:	-		
				Lys-15 to Gly-25.	Lys-9 to Trp-17.	Lys-26 to Cys-31,	Arg-38 to Asp-46.	Leu-12 to Ser-17.	Asp-20 to His-27.		Thr-78 to Arg-84.	Glu-12 to Thr-39.		Lys-19 to Asn-27.	•			Gly-2 to Cys-7,	Glu-28 to Glu-40,	Glu-53 to Lys-58.	Phe-26 to Trp-32.	741.0	Cys-14 to Ser-26,	Glu-40 to Lys-58.		Cys-14 to Ser-26,	Glu-40 to Lys-60.
4840	4841		4842	4843	4844	4845		4846	4847	4848	4849	4850		4851		4852	70.00	4853			4854	40.66	4855			5369	
43 - 165	159 - 350		1 - 111	841 - 65	45 - 245	465 - 98		106 - 300	44 - 301	3 - 88	42 - 317	1 - 228		227 - 313		105 - 341	100	80 - 277			75 - 284	102 070	708 - 204			182 - 361	
2153	2154		2155	2156	2157	2158		2159	2160	2161	2162	2163		2164		2165	23.0	2166			2167	2160	7108			2682	
926104	914414		524246	773844	26985	731002		530021	206836	535061	954214	915825		960240		921767	0,000	/82942			888298	010050	007016			912272	
HPEKI04	HPEKE01		HPEBT82	HPEBT78	HPEBT68	HPEBT54	-	HPEBT49	HPEBT34	HPEBT14	HPEBT07	HPEBO67		HPEBL08		HPEBH01	OOCHIGIT	HPEBG89			HPEBG10	THEDAGO	HFEBA89				

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H0166: 1	H0166: 1 and L0779: 1.	H0165: 1		H0165: 1 and L0744:	L0794: 4 and H0165:		H0165: 1	H0165: 1 and L0526:	1.	L0759: 2, L0769: 1,	L0768: 1, L0794: 1,	L0805: 1, H0658: 1,	L0750: 1 and L0777: 1.	L0439: 2, L0717: 1,	L0803: 1, H0658: 1 and L0777: 1	L0779: 2 and H0658:	1.	H0658: 1 and L0779:	1.	H0658: 1 and L0756:	1.	L0666: 2, L0766: 1,	L0655: 1 and H0658: 1.	H0658: 1 and L0604:
	Gly-14 to Ser-19.		Pro-4 to Thr-17.		Ser-7 to Lys-13,	Leu-29 to Ser-36.	Leu-11 to Ala-18, Gly-22 to Ser-41.			Gly-1 to Thr-13,	Arg-37 to Ser-45,	Arg-52 to Asn-73.			ı			Ala-10 to Lys-18.	+	Gly-13 to Trp-21.		Pro-65 to His-76,	Asn-110 to Phe-118.	Asp-11 to Asn-17.
4856	4857	4858	5370	4859	4860		4861	4862		4863				4864		4865		4866		4867		4868		4869
2 - 70	_2 - 178	83 - 232	776 - 1117	45 - 383	2 - 178		199 - 414	186 - 308		261 - 548		1		287 - 472		311 - 433		25 - 117		118 - 342		448 - 74		54 - 299
2169	2170	2171	2683	2172	2173		2174	2175		2176		•		2177		2178		2179		2180		2181		2182
742251	928027	468542	289933	761472	968847		514231	668298		965249				928563		913859		965276		965307		968601		951838
HPEBA61	HPEBA05	HPEAG43		HPEAD72	HPEAB12		HPEAA57	HPEAA40		HPDWR11				HPDWN05		HPDVM01		HPDVD11		HPDRU11		HPDRR06		HPDRN07

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1.	L0748: 2, H0658: 1 and L0750: 1.	H0658: 1, L0777: 1 and L0592: 1.	L0523: 1 and H0658:	H0658: 1	L0766: 2, L0776: 2, H0658: 1 and L0779: 1.	L0769: 3 and H0658: 1.	L0770: 2 and H0658: 1.	H0659: 1, L0740: 1 and L0756: 1.	AR089: 6, AR061: 2 H0659: 1	L0659: 2, H0659: 1 and L0779: 1.	L0805: 1, L0776: 1 and H0659: 1.	L0800: 1, H0659: 1 and L0747: 1.	AR089: 23, AR061: 7 L0439: 2, L0369: 1 and H0659: 1.	AR050: 18, AR054: 18, AR089: 5, AR051:
		Arg-10 to Gln-16, Pro-24 to Gly-30.	Thr-1 to Asn-13, Pro-35 to Lys-42.	Arg-23 to Val-29.	Met-6 to His-12.					Arg-40 to Gln-47.	Arg-6 to Arg-11.			Pro-18 to Gln-28, Gln-42 to Asn-49,
	4870	4871	4872	4873	4874	4875	4876	4877	4878	4879	4880	4881	4882	4883
	339 - 674	1 - 255	3 - 179	120 - 398	280 - 429	338 - 520	30 - 227	207 - 446	3 - 332	150 - 347	2 - 328	85 - 222	97 - 249	1 - 369
	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196
	914416	969342	969341	957822	961782	961881	965491	917480	922149	925777	951646	954940	911075	946913
	HPDRG01	HPDPS12	HPDPP12	HPDPC08	HPDOW10	HPD0010	HPDOF11	HPCTK02	HPCTD03	HPCTC04	нРСОО07	HPCPM63	HPCOV68	HPCAO89

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4, AR061: 2	L0761: 1 and S0146: 1.	S0146: 1		S0146: 1 and L0754: 1.	S0146: 1	S0146: 1				S0146: 1 and L0591: 1.	S0146: 1	L0748: 3, L0603: 2,	H0428: 1, L0771: 1,	.0749: 1 and L0757: 1.		H0428: 1	H0428: 1	H0428: 1 and L0750:	•	AR089: 7, AR061: 2	H0428: 1	H0428: 1 and L0766:	•	H0428: 1 and L0462:	•			L0439: 12 and H0428:
Ser-72 to Arg-81.		Lys-9 to Tyr-14,	Glu-44 to His-50.		Asp-38 to Ala-43.	Glu-16 to Glu-27,	Glu-35 to Ser-46,	Glu-56 to Ala-64.		Gly-1 to Gly-11.	Pro-21 to Thr-40.		Gln-60 to Trp-74,		Met-106 to Gly-124.	,		Ser-27 to Gly-32.			Cys-38 to Thr-44.	Arg-2 to Cys-11,	Cys-15 to Gly-20.		Thr-44 to Tyr-50,	Pro-53 to Gln-60,	Ser-67 to Val-82.	Tyr-17 to Gln-23,
		4884		4885	4886	4887			5371	4888	4889	4890				4891	4892	4893		4894		4895		4896			,	4897
		85 - 237		190 - 348	75 - 275	465 - 271	1	•	145 - 312	2 - 409	8 - 247	49 - 540				170 - 328	106 - 201	18 - 179		88 - 444		2 - 172		3 - 323				120 - 299
,		2197		2198	2199	2200			2684	2201	2202	2203				2204	2205	2206		2207		2208		2209				2210
		320415		778177	573368	584754		,	584755	728857	575233	914553				961865	933737	602926		909030		948619		961887		-		772210
	\neg	HPCAK66		HPCAG81		HPCAD17		,		HPCAB54	HPCAB45	HOVEV01			-r	\neg		HOVEO04	- 1	HOVEE20		HOVDD82		HOVDD10 961887				HOVCP77

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	H0428: 1, L0752: 1 and L0759: 1.	H0428: 1 and L0744: 1.	H0428: 1 and L0439:	H0428: 1 and L0750:	H0428: 1	H0428: 1, L0743: 1,	L0744: 1, L0747: 1, L0752: 1 and L0592: 1.	L0439: 2 and H0428:	H0428: 1 and L0581: 1.	H0428: 1, L0764: 1 and L0758: 1.	H0428: 1 and L0740: 1.	L0766: 2, H0428: 1, L0775: 1, L0782: 1, L0783: 1, L0748: 1 and L0758: 1.	H0428: 1, L0748: 1 and L0581: 1.	L0749: 2 and H0428: 1.
Lys-32 to Ser-38.		Lys-1 to Gln-12, Cys-44 to Lys-49.	Arg-30 to Lys-39.	Glu-10 to Thr-18.		Pro-43 to Ser-49.		Asp-33 to Val-38.		Asp-1 to Val-13, Ser-17 to Ser-26.		,	Gln-1 to Leu-7, Ser-32 to His-42.	
	4898	4899	4900	4901	4902	4903		4904	4905	4906	4907	4908	4909	4910
	425 - 586	143 - 301	107 - 265	159 - 257	194 - 322	938 - 75		124 - 252	210380	200 - 604	116 - 424	33 - 263	75 - 353	155 - 355
	2211	2212	2213	2214	2215	2216		2217	2218	2219	2220	2221	2222	2223
	932544	734779	772208	924196	786917	959470		702445	465313	858863	757594	956238	858857	751665
	HOVCO50	HOVCN57	HOVCM77 772208	HOVCM03	H-JVCI89	HOVCI08		HOVCD33	HOVCC57	НОУВО07	HOVBK69	HOVBK38	HOVBK24	HOVBI67

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H0428: 1 and L0748:	H0428: 1	L0740: 2 and H0428: 1.	H0428: 1	H0428: 1 and L0754:	1.	H0428·1	H0428: 1	L0516: 2, H0428: 1	and L0753: 1.	H0428: 1 and L0748:	1.	L0748: 5, H0428: 1	H0428: 1 and L0743:	1,	H0428: 1 and L0752:	1.	H0428: 1	H0428: 1		H0428: 1	H0428: 1 and L0748:
	Glu-14 to Pro-19, Arg-24 to Arg-36, Arg-85 to His-90.		Asn-20 to Lys-25.	Val-1 to Thr-11,	Tyr-23 to Leu-31,	Asn-20 to Ghi-26			•				Lys-40 to Phe-47.	•	Val-41 to Lys-46.		•	Phe-58 to Arg-67,	Leu-71 to Thr-77.		Ile-23 to Cys-35.
4911	4912	4913	4914	4915		4916	4917	4918		4919	ļ	4920	4921		4922		4923	4924		4925	4926
1 - 183	2 - 298	275 - 457	203 - 409	888 - 6/1		168 - 320	147 - 1	2 - 247		112 - 270		3 - 122	279 - 452		2 - 199		22 - 102	245 - 3		181 - 366	36 - 197
2224	2225	2226	2227	2228		2229	2230	2231		2232		2233	2234		2235		2236	2237		2238	2239
669730	904818	750273	827077	736077		713812	+	745704		678163		725005	953422		932093		953553	016770		578783	278809
HOVBI20	HOVAZ89	HOVAZ65	HOVAY88	HOVAY58		HOVAY42	HOVAY03	HOVAW62		HOVA025		HOVAN51	HOVAJ07		HOVAI05		HOVAF07	HOVAF01		HOVAC77	HOVAC54

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H0428: 1	H0428: 1	L0756: 2, L0361: 2, H0428: 1, L0598: 1 and L0592: 1.	L0776: 1 and H0648:	L0758: 3, L0779: 2, H0648: 1 and L0740: 1.	H0648: 1 and L0777: 1.	L0770: 1, L0794: 1, L0804: 1 and H0648: 1:	H0648: 1 and L0750: 1.	L0758: 3 and H0648: 1.	H0648: 1 and L0758:	L0751: 3, L0764: 1, L0518: 1, H0648: 1, L0747: 1 and L0752: 1.	H0648: 1 and L0596: 1.
Gln-12 to Gly-17, Ser-28 to Pro-39.	Asp-1 to Arg-6, Thr-31 to Leu-43, Val-53 to His-59, Pro-61 to Val-73, Ser-81 to Ser-96.		Lys-38 to Lys-50.	Thr-31 to Lys-40.		Arg-21 to Leu-27.	Pro-48 to Phe-72.	Val-16 to Thr-26, Pro-30 to Ser-36, Pro-53 to Glu-58.	Lys-34 to Gly-41.	Pro-42 to Asp-55.	Glu-34 to Glu-44.
4927	4928	4929	4930	4931	4932	4933	4934	4935	4936	4937	4938
45 - 278	3 - 407	256 - 477	210 - 359	508 - 239	17 - 283	3 - 260	205 - 420	37 - 210	248 - 379	280 - 444	2 - 205
2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251
578810	578788	578791	961499	925784	925774	925783	965292	928627	917454	928644	922510
HOVAC26	HOVAB85	HOVAB61	HOOKF10	HOOKF04	HOOJU04	HOOJN04	HOOJK11	ноолноз	HOOJE02	ноопо	HOOIG03

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H0648: 1, L0748: 1, L0751: 1, L0754: 1 and 1, 0749: 1	H0648: 1, L0754: 1	L0666: 1 and H0648:	H0028: 1 and L0792:	1	H0028: 1 and L0777:	1.	10/00. 1 alla 10006. 1.	AR051: 655, AR050:	494, AKU34: 340 T0068: 1	T0068: 1 and L0749: 1.	T0068: 1 and L0592: 1.	AR061: 1, AR089: 1	T0068: 1 and L0779: 1.	H0435: 1	L0774: 1 and H0435:	pod.	H0435: 1	L0439: 2 and H0435:	1.	H0435: 1 and L0743:	H0435: 1 and L0748:
Phe-13 to Gln-24.		Arg-1 to Cys-10, Lys-17 to Gly-24,	His-1 to Gln-7,	Gly-14 to Gly-23, Leu-50 to Arg-67.	Ser-66 to Pro-76.	Ch. 1 to I we k	Gia-1 to Eys-0.			Gly-18 to Thr-32.	Ser-6 to Lys-14.			Ser-1 to Gly-1-1.			Lys-10 to Asn-16.				
4939	4940	4941	4942		4943	4044	11/1	4945		4946	4947	4948		4949	4950		4951	4952		4953	4954
210 - 374	1 - 171	1 - 150	249 - 49_		196 - 579	3.116	277 223	666-110		344 - 559	174 - 290	732 - 1040		2 - 145	163 - 414		484 - 732	389 - 763		205 - 441	1 - 240
2252	2253	2254	2255		2256	7257	0300	9077		2259	2260	2261		2262	2263		2264	2265		7266	2267
917424	969061	933873	522227		932925	968610	020000	670056		723571	747152	859016		973221	922578		973227	657284		4638/4	964761
НООНР02	НООНЕ67	ноонрое	HOOAB23	,	HOOAB05	HONAK10	HONAHOK	COLVENIOR		HONAE50	HONAD65	HONAD02		\neg	нодрооз		\neg	HOGCT13	, 6 40 0 0 1	HOGCK31	HOGCR10

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 	223900, 253800, 253800							,							
	9q31.2														,
L0766: 3 and H0435: 1.	H0435: 1 and L0748:	L0369: 1 and H0435:	H0435: 1	L0745: 2 and H0435:	L0748: 2 and H0435: 1.	H0435: 1 and L0439: 1.	H0435: 1 and L0747: 1.	H0435: 1	H0435: 1 and L0777:	L0748: 2 and H0435: 1.	H0435: 1 and L0596: 1.	L0747: 2, H0435: 1,	L0742: 1, L0596: 1 and	LU391: 1.	
Ser-19 to Asp-31.				Gly-2 to Tyr-8.	Arg-8 to Leu-17.	Ser-17 to Trp-23.	Arg-1 to Phe-13.		Lys-3 to Phe-8.	Arg-1 to Gly-19, Lys-35 to Trp-43.	Asp-22 to His-28, Arg-49 to Ser-54.	Lys-10 to Ser-15,	Arg-44 to Ser-62,	Us-115 to Phe-124.	Glu-137 to Asp-148,
4955	4956	4957	4958	4959	4960	4961	4962	4963	4964	4965	4966	4967			
3 - 608	2 - 202	126 - 509	247 - 393	101 - 241	298 - 501	208 - 50	2163	973 - 779	227 - 379	221 - 397	163 - 369	2 - 634			
2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280			
859076	930813	859077	761991	745130	750308	847191	682232	908904	764490	681919	760431	734848			
НОССО54	нодсног	HOGCE07	HOGCD61	HOGCC63	HOGCA65	HOGBJ26	HOGBE27	HOGAM56	HOGAI73	HOGAI26	HOGAH71	HOGAG57			

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				104770	107670	110700,	135940,	145001,	146790,	152445,	152445,	159001,	174000,	179755,	182860,	182860,	182860,	191315,	230800,	230800,	266200,	600897,	601105,	601412,	601652,	602491
				1021																		,				
	L0748: 2 and H0435:	H0435: 1	H0415: 1	H0415: 1						1			•						1							
Gly-165 to His-171, Glu-189 to Lys-211.			Asp-48 to Glu-53,	Glu-17 to His-23.	His-26 to Ser-34.	Gly-40 to Glu-45.					•				ı					-				٠		
	4968	4969	4970	4971																						
1	298 - 576	578 - 324	46 - 336	213 - 28								,														
	2281	2282	2283	2284																*						
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	HOGAD77	HOGAC69	HOFNW81	HOFNW69																						

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H0415: 1	AR089: 5, AR061: 3	.1		H0415: 1		H0415: 1				L0748: 2 and H0415:			H0415: 1			H0415: 1	,			H0415: 1	H0415: 1	H0415: 1			H0415: 1	H0415: 1	H0415: 1	H0415: 1
Lys-18 to Asp-23.	Arg-14 to Asn-19,	Ala-35 to Ser-45,	Gln-74 to Glu-90.	Asn-12 to Glu-19,	Lys-30 to Phe-35.	Arg-10 to Arg-19,	Asn-50 to Ser-61,	Met-65 to Lys-71,	Ala-83 to Asn-89.	Phe-5 to Pro-10,	Gln-71 to Ser-77,	Lys-86 to Glu-91.	Pro-3 to Ala-17,	Asn-56 to Asp-62,	Gln-85 to Gly-100.	Gln-1 to Ser-6,	Ser-36 to Ser-45,	Leu-47 to Pro-54,	Arg-59 to Gly-69.			Arg-1 to Arg-6.	Gly-9 to His-30,	Arg-48 to Pro-57.		Gln-7 to Gly-15.		
4972	4973			4974		4975				4976			4977			4978				4979	4980	4981	5372		4982	4983	4984	4985
1 - 132	3 - 431	-		2 - 118		37 - 411	١			3 - 347	i		3 - 380			90 - 323				1 - 138	52 - 273	59 - 253	1 - 177		151 - 351	166 - 408	111 - 302	35 - 232
2285	2286			2287		2288			٠	2289			2290			2291				2292	2293	2294	2685		2295	2296	2297	2298
753048	815822			720755		953436				724437			888269			788947				784366	760643	760392	773729		859094	859093	713816	859102
HOFNW68	HOFNW65			HOFNW45		HOFNW07		•		HOFNU50			HOFNL96			HOFNI90				HOFNI85	HOFNI72	HOFNI71			HOFNI58	HOFNI56	HOFN142	HOFNI37

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H0415: 1	H0415: 1	H0415: 1	H0415: 1	AR051: 12, AR050:	12, AR054: 10, AR061:	2, AR089: 1	H0415: 1	H0415: 1	H0415: 1	H0415: 1	H0415: 1	H0415: 1	H0415: 1	H0415: 1		AR050: 84, AR054:	73, AR051: 55, AR089:	21, AR061: 8	H0415: 1	AR051: 10, AR054: 9,		H0415: 1	AR051: 15, AR050: 9,		AR054: 1	H0415: 1	H0415: 1
	Gly-1 to Gly-11, Thr-59 to Gly-64.		Gln-16 to Gln-23.	Ser-9 to Lys-18.				Glu-21 to Asp-26.		Arg-1 to Thr-15.	Arg-18 to Lys-24.	Arg-18 to Gly-24.	Gln-85 to Pro-91.			Val-17 to Glu-24.	ı			Asp-1 to Leu-10,	Glu-38 to Cys-74.	,	Asp-1 to Asp-17,	Pro-61 to Asn-66,	Tyr-84 to Tyr-90,	Ser-103 to Trp-110.	
4986	4987	4988	4989	4990				4991	4992	4993	4994	4995	4996	4997	5373	4998		•		4999			2000				5001
3 - 263	2-217	2 - 193	1 - 201	1 - 315				139 - 243	179 - 3	2 - 67	187 - 432	2 - 154	256 - 528	993 - 625	217 - 402	87 - 239				3 - 269			3 - 359				3 - 461
2299	2300	2301	2302	2303				2304	2305 ·	2306	2307	2308	2309	2310	2686	2311				2312			2313				2314
859103	699299	964682	917347	835718				774037	613681	731801	725684	489858	743184	824242	902061	888552				891512			947973				972725
HOFNI33	HOFNI32	HOFNI10	HOFNI02	HOFNC80				HOFNC79	HOFNB63	HOFNB55	HOFNB51	HOFMU70	HOFMU67	HOFMU29		HOFMT55				HOFMT45			HOFMS43				HOFMS09 972725

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AR089: 20, AR061: 9	H0415: 1	H0415: 1		,	AR089: 2, AR061: 1	H0415: 1							ı	•						H0415: 1		AR050: 21, AR051:	10, AR054: 9	H0415: 1	H0414: 1	AR054: 15, AR051: 3,	AR050: 0	H0414: 1	
Ala-74 to Gly-84,	Arg-98 to Lys-104.	Lys-28 to Val-33,	Gln-40 to Gly-48.	Asn-33 to Leu-38.	Thr-1 to Lys-7,	Ala-17 to Arg-33,	His-35 to Asn-45,	Glu-47 to Arg-52.	Phe-8 to Ser-21,	lle-28 to Arg-33,	Ile-40 to Gly-49,	Ala-56 to Gln-61,	Gln-69 to Ser-76,	Ala-91 to Tyr-96,	Thr-119 to Cys-126,	Ser-132 to Arg-144,	Thr-147 to Asp-158.	Arg-17 to Leu-32,	His-43 to Cys-54.	Asp-1 to Asn-6,	Met-46 to Phe-53.	Arg-1 to Gly-14,	Glu-35 to Leu-42,	Thr-54 to Lys-61.		Pro-19 to Arg-27,	Ser-36 to Asn-42,	His-101 to Pro-107,	Gly-150 to Gln-155,
5005		5003		5374	5004				5375									5376		5005		2006			2007	2008			
1 - 372		145 - 2		3 - 839	2 - 169				3 - 476						ł			1 - 447		3 - 395		2 - 397	****		271 - 993	3 - 527		,	
2315		2316		2687	2317				2688									5689		2318		2319			2320	2321		_	
943358		491360		859125	693987				694062									909248		788733		888780			942367	886485			
HOFMP09		HOFMI25			HOFMF82															HOFMF81		HOFMF19			HOFAF25	HOFAD78			

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	L0623: 2, H0615: 1	H0615: 1, L0435: 1	H0615: 1, L0520: 1	H0615: 1 and L0754:	H0615: 1 and L0758:		L0471: 1, H0615: 1,	L0471: 1, H0615: 1	and L0748: 1.	L0777: 2 and H0615:		H0615: 1 and L0775:		H0615: 1 and L0666:	H0615: 1, L0775: 1	and L0748: 1.	L0747: 2 and H0615:			
Ser-167 to Thr-175.	Gly-13 to Ser-20, L Arg-41 to Thr-47.		H	Thr-26 to Ser-33. H		Trp-12 to Tyr-20, 1. Arg-47 to Ser-63.			anc	Asn-1 to Asp-6, L(1		Cys-36 to lle-44, 1. Arg-77 to Pro-112.	Ser-17 to Gln-29. Ho	Ser-2 to Ile-16 H	and		Ala-45 to Arg-52, 1.	Ser-75 to Leu-80,	Arg-89 to Asp-94,
	6005	5010	5011	5012	5013		5014	5015		5016	5017	2017		5018	5019		5020			
	3 - 143	91 - 309	128 - 328	114 - 278	338 - 610		461 - 610	237 - 368		122 - 358	3 404	3 - 494		3-170	222 - 491		3 - 563	_		
	2322	2323	2324	2325	2326		2327	2328		2329	2220	7220		2331	2332		2333			
	951875	929321	926200	952193	690996		859300	918476		963350	847138	047130		969588	926278		795281			
	HODKG07	НОБЛО5	HODJL04	НОДНК07	HODHG11		HODGL88	HODGJ02		HODFY10	HODEX 19	HODEALS		HODFX12	HODFX04		HODFW95			

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	H0615: 1, L0805: 1 and L0776: 1.	H0615: 1 and L0756:	H0615: 1	L0777: 2 and H0615:	H0615: 1	H0615: 1	H0615: 1 and L0362:	AR054: 34 AR051:	29, AR050: 23, AR089:	4, AR061: 4	H0615: 1	H0615: 1 and L0748:	1.	AR061: 10, AR089: 4 H0615: 1	H0615: 1 and L0749:	H0615: 1	L0748: 3 and H0615:	H0615: 1 and L0748:	L0534: 1 and H0615:
Arg-139 to Glu-158.			Lys-1 to Thr-22.					His-8 to Glv-18.	167.			ı			Thr-47 to Lys-53;	His-34 to Trp-39.			
	5021	5022	5023	5024	5025	5026	5027	5028				5029		5030	5031	5032	5033	5034	5035
	386 - 556	35 - 199	239 - 463	326 - 460	81 - 338	453 - 593	1 - 150	14 - 544				85 - 249		1 - 576	66 - 242	215 - 436	2 - 286	354 - 127	90 - 200
	2334	2335	2336	2337	2338	2339	2340	2341				2342		2343	2344	2345	2346	2347	2348
	859320	783789	948703	590996	974317	974916	779191	974911				926999	0,000	909812	774156	974337	915167	952194	963474
	HODFW40	HODFR85	HODFL37	HODFJ11	HODFI66	HODFH45	HODFG82	HODFF88				HODFE04	11011	HODFD/3	HODFC79	HODEZ45	HODEU01	HODET07	HODES10

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H0615: 1, L0376: 1 and L0759: 1.	H0615: 1 and L0753: 1.	H0615: 1, L0060: 1 and L0462: 1.	H0328: 1 and L0748:	H0328: 1 and L0756:	H0328: 1 and L0748:	H0328: 1		H0328: 1, L0373: 1	and L0777: 1.	AR051: 30, AR050: 10 H0328: 1	H0328-1 1 0748-1	and L0596: 1.	H0328: 1, L0748: 1	and L0439: 1.	H0328: 1	H0328: 1 and L0777:	I. H0229.1	110226. 1	H0328: 1 and L0748:	H0328: 1	
	Leu-1 to Phe-8.			Thr-1 to Val-7.	Arg-21 to Phe-27, Ser-45 to Tm-50.		Pro-46 to Tyr-51.			Pro-35 to Lys-46.			Asn-36 to Thr-47.							Ser-51 to Leu-56,	
5036	5037	5038	5039	5040	5041	5042	5377	5043		5044	5045	'	5046		5047	5048	5049	200	0505	5051	
2 - 136	420 - 596	3 - 527	73 - 393	301 - 453	83 - 235	271 - 420	173 - 481	3 - 200		71 - 208	3 - 203		214 - 414		212 - 352	40 - 207	187 - 393	6	87 - 219	28 - 354	
2349	2350	2351	2352	2353	2354	2355	2690	2356		2357	2358		2359		2360	2361	2362	2262	7303	2364	
859364	779245	859375	745810	531075	765863	420051	704622	920961		745966	875811		764543		859543	781287	868291	003033	700000	973286	
НОДЕО35	HODEK82		HODDX64	68ЅССОН	HODDS74	HODDF37		НОDDE02	- 11	HODCZ64	HODCZ39	T	HODCY73		HODCY32	HODCW83	HODCV61	TODOOLS		HODCJ84	

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	H0328: 1, L0455: 1 and L0777: 1.	H0328: 1 and L0749:	H0328: 1 and L0748:	H0328: 1, L0527: 1	L0598: 2 and H0328:	AR051: 91, AR050:	61, AR054: 56 H0328: 1	H0328: 1	H0328: 1	L0794: 2, L0750: 2,	H0328: 1, L0766: 1,	L0803: 1, L0788: 1 and	L0755: 1.	H0328: 1 and L0792:	L0731: 2 and H0328:	1.	H0328: 1 and L0748: 1.	L0731: 3 and H0328:	L0745: 2, H0328: 1,
Ser-84 to Leu-90.	Val-10 to Glu-16.	Asn-44 to Asn-51.		Pro-43 to Ser-54.	Pro-33 to Phe-39, Tvr-50 to Ser-56.	Gly-1 to Ser-17.		Tyr-35 to Ile-42.		Leu-1 to Gly-12.		,			His-1 to Gly-6,	Cys-9 to Thr-18.	Thr-8 to Arg-14, Ser-37 to Glu-42.	Ser-8 to Ser-13.	
	2025	5053	5054	5055	5056	5057		5058	5059	2060				5061	5062		5063	5064	5065
	397 - 552	62 - 313	60-236	344 - 595	99 - 266	203 - 460		1 - 159	24 - 215	2 - 193				196 - 336	126 - 308		104 - 340	280 - 486	18 - 257
	2365	2366	2367	2368	2369	2370		2371	2372	2373				2374	2375		2376	2377	2378
	932633	792611	784526	960178	766284	859558		742114	529387	702750				529389	792579		764670	529635	721931
	HODCC05	HODCA90	HODBZ85	HODBX08	HODBU72	HODBK84		HODBF61	HODBF40	HODBF33				HODBF17	НОВВБ93	T		HODBC42	HODBA48

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L0740: 1 and L0759: 1.	H0328: 1	L0748: 2 and H0328:	H0328: 1	L0748: 3, L0740: 2,	H0328: 1, L0766: 1,	L0803: 1, L0659: 1,	L0665: 1 and L0612: 1.	AR061: 11, AR089: 9	L0748: 3 and H0328:	1.	H0328: 1 and L0596:		H0328: 1	H0328: 1	H0328: 1	H0328: 1 and L0748:	H0328: 1		H0328: 1	H0328: 1	H0328: 1	H0328: 1	H0328: 1	H0328: 1 and L0605:
	Glu-1 to Gly-13, Gly-21 to Thr-28, Lys-43 to Asn-61	Pro-1 to Gly-12.	Lys-1 to Ser-7.								Arg-15 to Thr-22,	Ser-28 to Arg-33.			Asp-1 to Arg-8.		Pro-1 to Gly-20,	Ser-27 to Ser-34.				Tyr-15 to Gln-27.	Lys-42 to Thr-47.	
	9905	2067	5068	6905				5070			5071		5072	5073	5074	5075	5076	-	2077	5078	5079	5080	5081	5082
	2 - 205	2 - 103	43 - 210	177 - 308				2 - 169 -			2 - 133		1 - 135	1 - 117	21 - 101	92 - 319	77 - 253		3 - 167	2 - 298	113 - 238	64 - 198	93 - 251	49 - 198
	2379	2380	2381	2382				2383			2384		2385	2386	2387	2388	2389		2390	2391	2392	2393	2394	2395
	826693	723449	592179	679165				745532			932639		529638	529637	529639	921680	790588		784534	529560	529563	859582	529570	859583
	HODAZ21	HODAX45	HODAV84	HODAV24	,		TYON ATTER	HODAKSS			HODAK05		HODAE72	HODAE55	HODAE48	HODAE01	HODAA92		HODAA85	HODAA80	HODAA69	HODAA54	HODAA34	HODAA21

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1.	H0328: 1	H0328: 1	H0328: 1	L0755: 2, L0758: 2,	L0717: 1, L0365: 1 and	H0660: 1.	L0748: 2, L0756: 2,	L0372: 1, L0663: 1,	L0665: 1, H0660: 1,	L0439: 1 and L0777: 1.	L0766: 1, H0660: 1	and L0758: 1.	L0766: 3 and H0660:		L0763: 1, L0776: 1 and	H0660: 1.	,	•	H0660: 1 and L0731:	U0660. 1 and 1 0740.	110000: 1 aliu 1.0749: 1.	. •		H0687: 1, L0803: 1	and L0666: 1.	L0766: 4, L0439: 4,	L0646: 1, H0651: 1,
							Arg-14 to Cys-20,	Val-34 to Cys-43,	Pro-45 to Ser-52.		Ser-18 to Ser-27.		Phe-19 to Tyr-34,	Ser-41 to Arg-51.	Ser-19 to Tyr-28,	Glu-34 to Val-45,	Gly-53 to Pro-58,	Glu-63 to Gln-82.	Asp-21 to Leu-45.	Dro 31 to Cly, 26	Ser-60 to Leu-65,	Gln-69 to Thr-76,	Gly-81 to Glu-87.			Thr-12 to Ser-19,	Lys-28 to Ala-39.
	5083	5084	2085	2086			5087				2088		5089		2090				5091	5002	7000			2093		5094	
	84 - 131	21 - 107	58 - 303	114 - 377		•	139 - 327				49 - 240		108 - 314		112 - 390				2 - 484	432 - 136	001 - 701			1517 - 1771		464 - 625	
	2396	2397	2398	2399			2400				2401		2402		2403				2404	2405	3			2406		2407	
	523382	954157	927711	928651			917453				917630		951744		914464				878363	914552				220696		926258	
	HODAA15	HODAA07	HODAA04	HOCPU05			НОСРН02	,			HOCPF02		HOCOV07		HOCMM01				HOCMI24	HOCMC01				HNOJJ12		HNOAD04	

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L0756: 1 and L0759: 1.	H0678: 1	AR051: 4, AR054: 0 H0678: 1	S0326: 1	S0326: 1	S0326: 1, L0769: 1 and L0774: 1.	H0662: 1 and L0748:	H0662: 1 and L0766: 1.	H0662: 1, L0794: 1	and L0758: 1.	H0662: 1 and L0524:	H0662: 1, L0764: 1,	L0803: 1, L0774: 1,	L0758: 1 and L0599: 1.	,		H0553: 1 and L0754:						
			Gln-27 to Asn-35.		Arg-14 to Trp-19.		Tyr-6 to Thr-15.	Glu-1 to Tyr-7,	47,	His-1 to Phe-6, Asn-58 to Met-65.	Pro-6 to Cys-24,	Glu-26 to Trp-37,	Asn-65 to Leu-73, Gin-81 to Giv-90.	Gly-100 to Gly-115,	Asn-118 to Ser-126.							
	2095	2096	5097	5098	5099	5100	5101	5102		5103	5104					2105			,			
	358 - 161	588 - 361	1111-1	2 - 346	387 - 73	91 - 192	3 - 104	321 - 521		109 - 336	3 - 437			•		3 - 245						T
	2408	2409	2410	2411	2412	2413	2414	2415		2416	2417					2418						
	957719	899742	683077	764172	974750	617716	922402	933673		914361	961734					754476						
	HNNNB08	HNNNA07	HNIAB92	HNIAB73	HNIAB26	HNBVH02	HNBVC03	HINBUQ06		HNBUO01	HNBUI10					HLWFJ69						

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			256540,	600281,				i .	,							
			20q13.1													
H0553: 1 and L0794:	L0617: 1 and H0553:	H0553: 1 and L0747: 1.	H0553: 1 and L0758:		H0553: 1 and L0512:	H0553: 1 and L0740:	H0553: 1 and L0596:	H0553: 1 and L0748:	H0553: 1 and L0756:	H0553: 1 and L0752:		H0553: 1, L0591: 1	H0553: 1, L0783: 1	H0553: 1		
Lys-38 to Gly-43.	Gln-1 to Ala-17, Arg-47 to Gln-52.	Lys-1 to Thr-6, Ser-32 to Ser-38.			Trp-5 to Lys-11.	Pro-31 to Gln-38, Ser-58 to Gly-69.	Phe-1 to Gly-6,	Glu-4 to Ala-9.	Val-33 to Ser-38.	Pro-14 to Arg-26,	Pro-28 to Ser-33, 1 Gly-48 to Ala-56.			Pro-6 to Glu-18,	Pro-20 to Trp-40,	Lys-86 to Arg-92.
5106	5107	5108	5109		5110	5111	5112	5113	5114	5115		5116	5117	5118		
56 - 328	1 - 204	179 - 331	2 - 259		1 - 216	215 - 514	1 - 207	219 - 392	2 - 250	1 - 297		3 - 503	278 - 466	278-3		
2419	2420	2421	2422		2423	2424	2425	2426	2427	2428		2429	2430	2431		
915399	963548	787632	917643		915378	856512	739801	791854	723787	781069	-	966289	720156	623773		
HLWFB01	HLWEH10	HLWEA90	HLWDZ31	·	HLWDD01	HLWDB48	HLWCP60	HLWCN93	HLWCN50	HLWCF83		HLWCF33	HLWCE47	HLWCB93		

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	H0553: 1 and L0751:	H0553: 1 and L0748:	AR050: 49, AR054: 47, AR051: 27 H0553: 1	H0553: 1, L0766: 1 and L0747: 1.	L0747: 2 and H0553:	H0553: 1 and L0748:	H0553: 1 and L0759: -1.	H0553: 1 and L0754: 1.	H0553: 1 and L0748:	H0553: 1, L0665: 1, L0439: 1 and L0759: 1.	AR054: 15, AR050: 3, AR051: 2 H0553: 1	
Ser-15 to Ser-23.	Arg-11 to Ser-17.	Arg-2 to Gly-7, Ile-28 to Ile-34, Ser-56 to Val-62.	Ser-1 to Glu-28.	Gly-11 to Trp-16, Cys-53 to Gly-78, Arg-99 to Asp-105, Ser-113 to Glu-119.	Lys-9 to Asn-22.	ı	Leu-20 to Asp-38.	Glu-8 to Gln-18.	Pro-2 to Thr-7, Ala-13 to Arg-20.	Arg-12 to Gly-21.	Glu-7 to Glu-13, Trp-18 to Thr-32, Pro-34 to Arg-44, Gly-51 to Trp-60,	Pro-62 to Ala-72.
5378	5119	5120	5121	5122	5123	5124	5125	5126	5127	5128	5129	
3 - 200	44 - 382	1 - 195	3-419	9 - 365	221 - 370	1 - 303	270 - 467	95 - 301	39 - 371	172 - 381	2 - 232	
2691	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	
856519	917920	690515	887877	743406	784261	790072	747784	791355	890888	721530	196188	
	HLWBX42	HLWBW29	HLWBT09	HLWBS62	HLWBR85	HLWBQ91	HLWBJ65	HLWBH92	HLWBG78	HLWBF48	HLWBE74	

							
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L0747: 2, H0553: 1 and L0794: 1.	H0553: 1 and L0755:	H0553: 1 and L0749:	H0553: 1 and L0759:	, '	H0553: 1 AR089: 4, AR061: 2 L0539: 1 and H0553:	H0553: 1 and L0745:	AR054: 55, AR050: 51, AR051: 48, AR089: 4, AR061: 2 H0553: 1
Pro-2 to Val-21, Asp-23 to Val-30, Gly-36 to Leu-41, Met-49 to Gly-55, Thr-72 to Lys-78,	Lys-6 to Leu-12, His-39 to Leu-57, Ile-61 to Asn-66	Lys-6 to Asn-13, Gly-31 to Gly-36, Glu-91 to Ser-99	Lys-11 to Arg-23, Cys-25 to Cys-31, Pro-33 to Tyr-38, Arg-46 to Ile-60.	Leu-17 to Gin-23, Gin-38 to Phe-44, Gin-65 to Gin-72, Thr-80 to Tvr-86.	His-27 to Ile-34. Tyr-46 to His-52.		
5130	5131	5132	5133	5379	5134	5136	5137
2 - 412	3 - 347	2 - 322	1 - 273	115 - 462	3 - 290	35 - 214	124 - 2
2443	2444	2445	2446	2692	2448	2449	2450
869611	720397	931387	785395	941397	625419 959139		948928
HLWBC21	HLWBA80	HLWBA27	HLWAW86		HLWAS09 HLWAR08	~	HLWAL31

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	H0553: 1 and L0439: 1.	H0553: 1 and L0758:	1.				H0553: 1 and L0439:	1.	H0553: 1	•	H0553: 1, L0754: 1	and L0755: 1.	H0553: 1	H0553: 1 and L0663:	-	L0794: 2, L0766: 1,	L0665: 1 and H0689: 1.		1		L0777: 2, H0545: 1	and L0754: 1.		H0545: 1 and L0756:	H0545: 1 and I 0599:	110040. 1 min 1000//.
Arg-9 to Pro-15, Leu-114 to Val-120, Cys-147 to Cys-156.		Arg-1 to Ser-6.	Phe-13 to Gln-24,	Glu-31 to Arg-40,	Ser-48 to Asn-56,	Asp-69 to Val-75.	Pro-21 to Gln-27,	Glu-53 to Ser-60.	His-1 to Ala-7,	Thr-34 to Leu-39.	Arg-1 to Arg-10,	Ile-66 to Glu-78.	Asn-42 to Lys-48.	Arg-2 to Phe-7,	Thr-68 to Asn-73.	Gly-11 to Ile-17,	Asn-24 to Ser-31,	Gln-47 to Ala-64,	Pro-66 to Ala-72,	Gly-77 to Gly-84.	Leu-2 to Arg-11,		Lys-54 to His-64.	Ser-48 to Lys-57.	Tvr-47 to Ser-58.	
5380	5138	5139					5140		5141		5142		5143	5144		5145					5146			5147	5148	
23 - 511	41 - 214	156 - 449					444 - 133		2 - 166		190 - 468		49 - 219	13 - 252		1 - 324					2 - 286			158 - 328	96 - 380	
2693	2451	2452					2453		2454		2455		2456	2457		2458					2459			2460	2461	
971312	666281	919714					789030		734655		702317		699158	919725		965175					895899			772101	964464	
	HLWAJ18	HLWAF02			·		HLWAE09		HLWAD57		HLWAD33		HLWAD32	HLWAD02		HKZAH11					HJMBX19			HJMBS77	HJMBS10	٦.

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					16p13.3				·																
1	H0545: 1 and L0747:	H0545: 1 and L0763: 1.	H0545: 1 and L0646:	H0545: 1, L0748: 1 and L0740: 1.	H0545: 1 and L0794:					•								•				L0588: 2, H0545: 1	and L0603: 1.		
	Thr-17 to Gly-22, Gln-69 to Glu-74.	Arg-5 to Thr-16.		Asn-74 to Pro-80.						•				ŧ								Pro-3 to Ser-16,		Pro-49 to Ala-58,	Thr-70 to Lys-78.
	5149	5150	5151	5152	5153																	5154			
	156 - 557	218 - 436	47 - 199	373 - 122	187 - 501						ı		-						_	.,		1 - 234			
	2462	2463	2464	2465	2466																	2467			
	788834	919737	929114	828110	961623											-						785410			-
	нумво90	HJMBN02	HJMBI93	HJMAV93	HJMAU07 961623			,														HJMAQ86			

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							•		ı '				1							•	104770,	107670,	110700,	145001,
					1.4	,			1												1912-1921.2			
L0163: 2, H0545: 1 and L0754: 1.	H0545: 1 and L0740:	<u></u>	H0545: 1	AR061: 4, AR089: 2	H0046: 1 and L0758:	H0046: 1, L0439: 1,	L0740: 1 and L0591: 1.	H0046: 1 and L0731:	1.	L0748: 2, H0046: 1	and L0766: 1.	H0046: 1	H0046: 1	H0046: 1	H0046: 1, L0748: 1	and L0581: 1.	H0046: 1 and L0439:	H0046: 1	L0738: 1, H0046: 1,	L0527: 1 and L0599: 1.	L0747: 2 and H0046:			
	Arg-1 to Ser-15,	Ser-18 to Ser-33, Glu-42 to Arg-51.	Gly-15 to Glu-21.					Pro-39 to Arg-44,	Ala-89 to Glu-103.				Asn-1 to Leu-13.		Ala-39 to Cys-46.		,	Val-19 to Leu-35.	Cys-11 to Pro-19,	Asn-28 to Leu-35.	Val-20 to Gly-26,	Asn-62 to Arg-68.	,	
5155	5156		5157	5158		5159		5160		5161		5162	5163	5164	2915		5166	5167	5168		5169			
130 - 477	78 - 452		195 - 356	3 - 416	1	109 - 306		13 - 321		218 - 415		2 - 247	2 - 166	70 - 204	250 - 420		181 - 336	3-113	2 - 352		113 - 343			
2468	2469		2470	2471		2472		2473		2474		2475	2476	2477	2478		2479	2480	2481		2482			
621219	811222		742612	909762	,	752542		622199		921649		529467	529587	529589	742157		677490	533536	961038		929285			
HJMAQ14	HJMAJ91		HJMAI62	HETLF29		HETJY68		HETID12		HETHO01		HETHB18	HETFF68	HETFF43	HETDU61		HETDA25	HETCO27	HETCH01		HETBM55			

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146760, 146790, 159001,	600897,	601412,	601652,	601863,	602491	180020,	600320,																	113721,	247200,
						6q25																	2pter-p25.1	17p13.3	
						H0046: 1 and L0731:		L0740: 3 and H0046.	1.	H0046: 1 and L0777:	<u></u>	H0046: 1 and L0748:		L0747: 2, H0046: 1	and L0748: 1.	H0544: 1, L0775: 1,	L0776: 1 and L0758: 1.	•	H0544: 1 and L0731:		H0544: 1	H0544: 1	H0544: 1	H0544: 1	
						Glu-31 to Gly-37,	Leu-42 to Gln-49.	Ser-73 to Lvs-91.		Pro-17 to Ser-23.		Ser-22 to Lys-31,	Thr-39 to Glu-47.	Ala-24 to Ser-31,	Val-52 to Asp-61.	Ser-54 to Ala-59,	Ser-64 to Phe-69,	Arg-79 to Thr-87.			Thr-7 to Gly-14.			Ser-1 to Pro-23,	Pro-35 to Asn-45,
						5170		5171		5172		5173		5174		5175			5176		5177	5178	5179	5180	
						124 - 447		237 - 548		12 - 188	·	14 - 187		575 - 757		375 - 659			252 - 10		463 - 245	29 - 142	1 - 276	2 - 295	
					00,0	2483		2484		2485		2486		2487		2488			2489	3	2490	2491	2492	2493	
					00/0/0	965638		790499		778539		754155		660831		924849			773528	0.00	855578	739877	827915	427813	
					TITETED	HEIBEOI		HETAS91		HETAS81		HETAS62		HETAJ14	\neg	HEQCC01			HEQBT78	CARCOTAL	ивовия	HEQBI09	HEQBG85	HEQBG60	

600059, 601545		1				,		,					
						`							
	H0544: 1	H0544: 1	H0544: 1 and L0599:	H0544: 1 and L0752:	H0544: 1, L0439: 1 and L0754: 1.	L0439: 2 and H0544:	L0731: 5 and H0544: 1.	L0747: 3 and H0544:	L0777: 4, H0150: 1 and L0757: 1.	H0150: 1 and L0747:	L0754: 2 and H0150:	H0150: 1 and L0743:	L0744: 2, L0731: 2 and
Cys-53 to Arg-70.	Asp-13 to Lys-20, Thr-43 to Ala-49.	Glu-18 to Pro-27, Asp-58 to Asn-65.	Phe-2 to Gly-7.				Trp-1 to Ser-10.	Lys-6 to Arg-11, Thr-22 to Gly-34.		Arg-10 to Ser-18, Leu-37 to Arg-48.	0		
	5181	5182	5183	5184	5185	5186	5187	5188	5189	5190	5191	5192	5193
ŧ	101 - 265	101 - 451	97 - 402	50 - 160	2 - 298	3 - 200	82 - 555	340 - 519	72 - 305	146 - 349	1 - 240	29 - 193	2 - 172
	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506
	772860	760305	916321	739220	793250	729594	914044	792255	941270	952996	783362	825778	535627
	НЕОВЕ78	неове71	HEQAZ01	HEQAM59	HEQAK94	HEQAF54	НЕQAD73	неса нес	HEPCB04	HEPBO92	нЕРВО85	HEPAY26	HEPAX40

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	125852,	126452,	126452,	141900,	141900,	141900,	141900,	141900,	141900,	142000,	142000,	142200,	142250,	142270,	176730,	176730,	176730,	190020,	191290,	192500,	192500,	194071,	194071,	204500,	600856,	601680,	602631,	002031	
	11p15.5						14	-	,			ı															•		
H0150: 1.	L0766: 3, L0776: 2,	H0150: 1, L0371: 1,	L0761: 1, L0764: 1,	L0662: 1, L0655: 1,	L0748: 1, L0754: 1,	L0749: 1 and L0779: 1.											, .				1								L0748: 2, L0756: 2,
																1													
	5194																·····					•			-				5195
	1 - 330						١				•												-	.,				.,,	245 - 511
	2507													٠														0020	2002
	99299							,												-		-						00000	/0/533
	HEPAX16																											_	HEFAUSS

		1-1									
L0777: 2, H0150: 1, L0789: 1, L0666: 1 and L0758: 1.	H0150: 1 and L0777: 1.	H0150: 1 and L0780; 1.	H0150: 1 and L0763:	H0150: 1 and L0743: 1.	H0150: 1, L0779: 1 and L0758: 1.	H0150: 1 and L0743:	H0150: 1 and L0522:	H0550: 1 and L0646:	H0550: 1 and L0745:	H0550: 1 and L0605:	H0550: 1 and L0766: 1.
	Pro-17 to Val-26, His-34 to Lys-41, Pro-54 to Phe-66.	Lys-15 to Leu-29, Lys-45 to Glu-55, Lys-82 to Lys-89.	Leu-42 to Gly-54.	His-1 to Ser-10, Pro-22 to Gly-38, Asn-55 to Ser-60.	Thr-1 to Arg-16, Ala-45 to Gln-50, Pro-63 to Ala-68, Ala-80 to Asp-93.	Gly-38 to Asp-56.	Leu-15 to Lys-24.	,	Val-6 to Glu-11, Phe-22 to Cys-29.		Lys-18 to Glu-23, Gln-60 to Ala-67.
	5196	5197	5198	5199	5200	5201	5202	5203	5204	5205	5206
	369 - 623	223 - 489	4 - 177	55 - 243	71 - 367	174 - 353	3 - 107	2 - 304	95 - 352	217 - 372	3 - 230
	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519
	703336	932893	933039	657440	933091	509130	921389	922550	751233	915596	927260
·	HEPAP34	HEPAN05	HEPAK04	HEPAJ14	HEPAJ04	HEPAE58	HEPAE02	HEGBC03	HEGBB67	HEGBA01	HEGAX04

300067, 300067, 300121, 300121, 301201, 301835,	000110					152200, 167000, 180020, 600320, 600883,		
Xq22.3						6q25.2-q27		
H0550: 1, L0748: 1 and L0749: 1.	H0550: 1, L0745: 1 and L0731: 1.	L0731: 2, L0597: 2, H0550: 1, L0783: 1 and L0439: 1.	H0550: 1 and L0758:	H0549: 1 and L0748:	AR051: 4, AR050: 2, AR054: 2 H0549: 1	H0549: 1, L0589: 1 and L0366: 1.	H0549: 1 and L0594: 1.	L0794: 6, L0806: 2, L0752: 2, H0549: 1, L0796: 1, L0766: 1,
	Lys-5 to Gly-11.	Pro-7 to Val-13.	Ser-7 to Cys-21, Ile-59 to Gly-64.	Asn-1 to Lys-14.	Arg-65 to Arg-72.	Asn-45 to Thr-50, Pro-52 to Arg-57.	Leu-32 to Leu-38.	
5207	, 5208	5209	5210	5211	5212	5213	5214	5215
1 - 273	153 - 359	344 - 511	2 - 196	222 - 383	2 - 328	222 - 398	249 - 413	101 - 784
2520	2521	2522	2523	2524	2525	2526	2527	2528
789940	731654	959216	918992	782706	912065	710655	738892	6471299
HEGAQ91 789940	HEGAL55	HEGAJ08	HEGAC02	HEEAY84	HEEAX09	HEEAW40 710655	HEEAP59	HEEAM25

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												120110,	601666,
						*						6q21	,
L0380: 1, L0803: 1, L0804: 1, L0807: 1, L0789: 1, L0663: 1, L0755: 1, L0596: 1 and L0485: 1.	H0549: 1 and L0599:	H0549: 1 and L0748:	H0549: 1 and L0601:	H0549: 1 and L0747:	H0549: 1 and L0605:	AR050: 66, AR054: 64, AR051: 63, AR089	13, AR061: 3 H0549: 1		H0549: 1 and L0756:	H0549: 1 and L0748:	H0369: 1 and L0740:	H0369: 1 and L0745:	
		Val-21 to Gly-26, Leu-29 to Gly-38.	Pro-3 to Phe-9, Ser-17 to Ala-24, Val-52 to Lys-62.	Ser-45 to Ser-50, Tyr-103 to Phe-110.	Glu-61 to Val-77, Phe-81 to Ser-88.		- 1		1	Val-15 to Ala-23, - Pro-30 to Ser-35.	Val-22 to Gly-29.	Lys-80 to Lys-86.	
	5216	5217	5218	5219	5220	5221		5381	5222	5223	5224	5225	
	114 - 344	16 - 213	219 - 404	15 - 344	1 - 423	266 - 36		429 - 295	1 - 195	128 - 310	63 - 182	53 - 364	
·	2529	2530	2531	2532	2533	2534		2694	2535	2536	2537	2538	
	794257	769950	734488	661827	930810	724929		887048	470886	210668	684734	911255	
	нееан94	HEEAH76	HEEAH57	HEEAH16	HEEAG51	HEEAG12			HEEAD13	HEEAB40	HEAAX26	HEAAU20	

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602772											1 .										
				1-1	,		1	,	-												,
	H0369: 1	H0369: 1 and L0769:	H0369: 1 and L0748:	L0539: 1, H0369: 1	H0369: 1 and L0589:	H0369: 1					-	L0731: 9, L0754: 3 and	H0369: 1.	H0369: 1	L0626: 1, L0775: 1,	L0769: 1, L0665: 1 and	H0670: 1.			H0670: 1 and L0758:	L0779: 3, L0758: 3 and H0670: 1.
		Gly-1 to Ser-6.		Thr-3 to Ala-10, Glu-30 to Arg-38.	Leu-23 to His-28.		Arg-43 to Ser-49,	Glu-55 to Ser-61,	Pro-70 to Arg-75,	Cys-91 to Gly-103.	Arg-45 to Gly-52.	Glu-24 to Tyr-31.			Pro-1 to Arg-14.	Pro-15 to Glu-21,	Ala-43 to Glu-58,	Leu-96 to Glu-101,	Ala-111 to Ala-119.	Thr-29 to Arg-43.	
	5226	5227	5228	5229	5230	5231	5382				5383	5232	2000	5233	5234	5235				5236	5237
	20 - 220	353 - 535	235 - 336	321 - 563	2 - 136	605 - 396	1539 - 1913				316 - 504	598 - 792	470 740	438 - /40	2 - 142	158 - 628				185 - 313	79 - 240
	2539	2540	2541	2542	2543	2544	2695				2696	2545	26.20	7240	2547	2548				2549	2550
	973284	883939	842032	950736	770200	896892	904209				906483	714041	044261	844301	928679	933473				951645	951655
	HEAAR47	HEAAR21	HEAAN43	HEAAM71	HEAAL76	HEAAG84						HEAAG42	DEA A DEC	nEAAB00	HCORB05	HCOPM06				HCOPI07	HCOPF07

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		,						
H0670: 1, L0731: 1 and L0759: 1	L0517: 1, L0438: 1, H0670: 1 and I 0430: 1	L0517: 2, L0756: 2, L0803: 1, L0776: 1, L0809: 1, L0663: 1, H0670: 1, L0755: 1 and	AR089: 1, AR061: 1 H0670: 1			H0484: 1 and L0743:	H0484: 1, L0617: 1, L0772: 1, L0751: 1 and L0752: 1.	AR061: 1, AR089: 1 H0484: 1 and L0589: 1.
Pro-13 to Ser-19, Asp-27 to Thr-35.	Asn-7 to Val-13.	Asp-5 to Ala-11, Trp-24 to Phe-31, Arg-44 to Trp-50.	Gln-19 to Asp-38, Pro-46 to Thr-55, Leu-96 to Gly-104,	Ala-114 to Ala-119, Gln-125 to Trp-131, Pro-133 to Pro-141,	Phe-144 to Glu-150, Glu-180 to Val-185, Glu-192 to Glu-197, Glu-254 to Leu-262, Met-272 to Ser-280	Cys-6 to Lys-21, Ser-53 to Ile-65, Asn-68 to Gir-80, Arg-106 to Ala-114	Arg-1 to Lys-12, Gly-57 to Gly-62, Pro-74 to Asp-80.	
5238	5239	5240	5241			5242	5243	5244
221 - 493	148 - 306	474 - 217	1 - 840			13 - 357	1 - 741	122 - 325
2551	2552	2553	2554	•		2555	2556	2557
951693	917577	971637	925952			908495	957690	862478
нсооғ07	HCONP02	HCONM33	HCOMM05			нсном48		HCHNW48

H0484: 1 and L0749: 1.	L0757: 2 and H0484:	.				H0484: 1 and L0439:	-			AR051: 32, AR054:	29, AR050: 28	H0484: 1	H0484: 1 and L0792:	- -		-		L0749: 3 and H0483:	11. TIOA02. 1 3 I 0774.	10463; 1 and LU/04; 1.	L0748: 3, L0596: 2,	H0483: 1, L0439: 1 and	L0749: 1.	H0483: 1	H0483: 1		
	Leu-8 to Val-20,	Arg-23 to Arg-33,	Ala-38 to 1 m-40,	Phe-69 to Tyr-75,	Ser-96 to Trp-104.	Ala-1 to Gly-8,	Arg-16 to Ser-21,	Ser-35 to Pro-45,	Ala-61 to Gly-67.				Lys-67 to Ser-79,	Ser-89 to Thr-109,	Asn-116 to Ser-129,	Glu-140 to Lys-147,	Ser-161 to Lys-172.	Gly-1 to Trp-6,	GIY-/4 to 1TP-80.		Phe-32 to Ala-37.				Gly-4 to Lys-10,	Gln-36 to Glu-41,	Arg-61 to Arg-76.
5245	5246					5247				5248			5249					5250	5251	1070	5252			5253	5254		
2 - 349	97 - 408					3 - 218				3 - 248			52 - 591	ı				248 - 499	251 502	200 - 107	214 - 462			11 - 193	11 - 241		
2558	2559					2560				2561			2562					2563	1950	£007	2565			2566	2567		
850340	586996					786765				800129			935298					952957	860084	100000	686431			773428	682308		
HCHMX82	HCHMW18					HCHMJ89				HCHIMI96			HCHMI15					HCHCI07	ВИСИСИЕВ		HCHCG28			HCHCE78	HCHBQ27		

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107741,	113900,	122720,	122720,	126340,	126391,	160900,	164731,	173850,	207750,	248600,	258501											•						
19q13.2																	,											
H0483: 1												H0483: 1		H0483: 1	H0483: 1	H0483: 1	L0752: 1 and S0398: 1.	1	L0697: 1 and S0398: 1.	S0398: 1	L0439: 1 and S0398: 1.	•	S0398: 1	S0398: 1	S0398: 1	S0398: 1	S0398: 1	L0587: 1 and S0398: 1.
Gly-1 to Ser-13.												Gly-4 to Lys-10,	Gln-36 to Glu-41.	Lys-1 to Lys-21.		Ser-26 to Thr-44.	Gly-12 to Cys-27.		<u>6</u> ,	Glu-12 to Leu-20.	Gln-9 to Val-17,	Phe-38 to Glu-45.	•				Gly-12 to His-19.	Gly-13 to Asn-22.
5255												5256		5257	5258	5259	5260	5261		5262	5263		5264	5265	5266	5267	5268	5269
1 - 177												13 - 153		2 - 148	1 - 75	3 - 212	86 - 286	147 - 473		160 - 330	47 - 283		116 - 271	2 - 241	28 - 183	185 - 289	128 - 244	2 - 202
2568												2569		2570	2571	2572	2573	2574		2575	2576		2577	2578	2579	2580	2581	2882
625420								-				681404		743411	487985	726081	796196	863374		785134	677627		675490	672815	934663	789551	713300	711996
HCHBN09												HCHBM26		\neg	HCHAH04			HCDME32		HCDMC86	HCDMC25		HCDMC23	HCDMC22	нсрмсое			HCDMB41

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					Pu			1									1.				,	
S0398: 1	AR050: 93, AR054: 62, AR051: 57 S0398: 1	L0753: 1 and S0398: 1			L0438: 1, L0439: 1 and	H0661: 1, 1,0805: 1	and L0776: 1.		H0661: 1 and L0740:		H0661: 1 and L0603:	H0661: 1, L0664: 1,	L0754: 1 and L0749: 1.			S0190: 1	L0771: 2 and S0190: 1.	S0190: 1				L0741: 3 and S0188: 1.
	Pro-7 to Gly-24.	Gly-38 to Gly-51.	Cys-20 to His-27,	Glu-35 to Lys-54.		Pro-12 to Thr-21.	Gly-35 to Thr-41,	Thr-53 to Gln-75, Ser-92 to Glv-98			Glu-22 to Glu-49.	Ala-1 to Asn-9,	Thr-24 to Asn-29,	Gly-43 to Arg-53,	Arg-106 to Arg-111.	Gln-7 to Lys-14.		Val-8 to Leu-14,	Pro-22 to Arg-31,	Thr-62 to Lys-68,	Arg-76 to Cys-82, Trp-85 to His-91.	C
5270	5271	5272	5273		5274	5275			5276		5277	5278				5279	5280	5281				5282
23 - 148	418 - 627	115 - 267	88 - 252		3 - 92	3 - 401		,	230 - 358		371 - 138	207 - 653				2 - 79	40 - 291	59 - 427				2 - 244
2583	2584	2585	2586		2587	2588			2589		2590	2591				2592	2593	2594				2595
682389	968918	958542	923316		669201	922388			951788		961718	965394				926407	920249	699335				764479
HCDMB27	HCDMB12	HCDMB08	HCDMB03		HCDMA20	HCBND03			HCBMZ07		HCBMY10	HCBMG11				HBZSK04	HBZSG02	HBZSD32				HBZAJ73

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									,														,
S0188: 1 and L0747: 1.	S0188: 1 and L0605: 1.	S0188: 1	S0188: 1 and L0587: 1.	L0774: 3, L0775: 1,	L0809: 1, S0188: 1 and	L0758: 1.	H0188: 1 and L0751:	11.	L0774: 2, L0741: 2,	L0439: 2, L0411: 1 and	H0188: 1.	H0188: 1, L0663: 1	H0188-1 and 1.0526-	-	H0188: 1, L0769: 1	and L0753: 1.	H0188: 1 and L0748:	H0182.1	,	L0439: 3 and H0188:	H0188: 1 and L0748:	H0188: 1	H0188: 1
Gly-38 to Ser-44.			Lys-26 to His-31.	Pro-1 to Gln-15,	Gln-38 to Asn-45,	Pro-57 to Thr-65.	Arg-54 to Arg-60.		Glu-17 to Tyr-22.				Tro-18 to Glv-23	Ser-25 to Met-31.						f	·	Asp-30 to Trp-36, Ser-39 to Trp-44.	Arg-10 to Glu-32.
5283	5284	5285	5286	5287			5288		5289			5290	5291		5292		5293	5294	5384	5295	5296	5297	5298
198 - 443	545 - 808	3 - 203	240 - 362	160 - 414			222 - 473		3 - 155	1	,	245 - 409	63 - 215		2 - 298		50 - 256	143 - 3	1 - 186	372 - 79	87 - 236	3 - 152	1-318
2596	2597	2598	2599	2600			2601		2602			2603	2604		2605		2606	2607	2697	2608	2609	2610	2611
681879	847621	847620	660348	095656			960288		430360	-		703113	907015		960664		712676	600905	847732	868924	764716	286797	525831
· HBZAJ26	HBZAI39	HBZAI14	HBZAB15	HBZAB08			HBNBQ50		HBNB030			HBNBL29	HBNBJ29		HBNBJ06		HBNBB41	HBNBB27		HBNBB09	HBNAW73	HBNAC74	HBNAC71

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H0188: 1	H0188: 1 and L0591:	1.	H0188: 1	H0188: 1	H0188: 1		H0188: 1	H0188: 1	AR050: 173, AR051:	169, AR054: 143,	AR089: 46, AR061: 9	H0617: 1	H0617: 1, L0766: 1	and L0788: 1.	AR054: 7, AR051: 2,	AR050: 1	H0617: 1, L0769: 1,	L0637: 1 and L0789: 1.	H0617: 1, L0767: 1,	L0775: 1 and L0779: 1.	L0779: 2, L0752: 2,	H0617: 1 and L0794: 1.	H0617: 1, L0774: 1,	L0747: 1 and L0752: 1.	H0617: 1 and L0750:	1.	L0758: 2 and H0617: 1.
					Leu-2 to Gln-11,	Lys-35 to Lys-48.		Pro-24 to Ala-37.	His-8 to Gly-18,	Pro-89 to Gly-96,	Lys-126 to Trp-131,	Glu-133 to Gly-141.	Gly-14 to Val-21.	•	Pro-16 to Gly-38,	Arg-50 to Arg-58,	Asp-65 to Asn-81.	4	Thr-10 to Gly-16.		Ser-73 to Lys-78,	Pro-93 to Gly-100.	•		Pro-46 to Gly-55,	Arg-79 to Cys-89.	Ser-28 to Trp-36.
5299	5300		5301	5305	5303		5304	5305	9089				2307		5308				5309		5310		5311		5312		5313
150 - 308	1 - 120		1 - 111	34 - 183	3 - 146		92 - 8	2 - 199	14 - 556				71 - 325		2 - 448				1 - 570		55 - 354		28 - 507		3 - 272		104 - 307
2612	2613		2614	2615	2616		2617	2618	2619				2620		2621				2622		2623		2624		2625		2626
721983	714263		526549	525832	525834		525833	921187	903653				965121		886650				848179		926973		954374		754392		773043
HBNAC48	HBNAC42		HBNAC32	HBNAC28	HBNAC25		HBNAC09		HBGTT76				HBGTE11		HBGQS88				HBGNL85		HBGND04		HBGMT82		HBGMS69		HBGMO78

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									102200,	106100,	131100,	131100,	131100,	133780,	147050,	153700,	161015,	164009,	168461,	168461,	168461,	180721,	180840,	191181,	193235,
-			+ of 		•			1	11q13														•		
AR050: 297, AR051: 237, AR054: 211 H0617: 1	L0748: 2, H0606: 1 and L0593: 1.	H0606: 1 and L0777:		L0439: 6, L0776: 2,	L0777: 2, H0181: 1,	L0762: 1 and L0809: 1.	AR089: 0, AR061: 0	H0181: 1	AR089: 33, AR061: 29 11913	H0181: 1							,								
Lys-3 to Leu-13, Pro-70 to Ser-78.		Gly-18 to Gly-24, Gly-31 to Ser-38,	His-57 to Asn-62.				Leu-92 to Phe-98.									, '	ŧ								
5314	5315	5316		5317		•	5318	:	5319																
37 - 363	358 - 140	267 - 473	١	3 - 374			2 - 355		2 - 277																
2627	2628	2629		2630			2631		2632																
880276	914032	727748		702854			861602		832888														•		
HBGMG81	HBGFS88	HBGFG53		НВСДНЗЗ			HBGDF39		HBGDA74						_										

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209901, 232600, 259700, 259770, 600045, 600319, 600528,			,						1								•		-		
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	H0181: 1	H0181: 1	H0181: 1		H0181: 1	H0181: 1	H0181: 1 and L0741:	-1	AR061: 1, AR089: 1	H0663: 1 and L0783:	1.	L0779: 3, H0663: 1,	L0757: 1 and L0758: 1.	H0663: 1 and L0766:	1.	H0664: 1 and L0758:		L0754: 2, H0664: 1	and L0748: 1.	H0294: 1 and L0777:	1.
	Lys-8 to Ala-14.		Leu-8 to Gly-19,	Leu-31 to Cys-36.	Ser-1 to Glu-10.		Ser-11 to Trp-17, Pro-19 to Thr-28	110-12 to 1111-26.	Arg-1 to Arg-8,	Glu-29 to Arg-37.		Ala-26 to Val-32.		Lys-25 to Asn-34,	Thr-92 to Gly-98.	Glu-14 to Ala-30,	Ile-46 to Lys-53.	Arg-5 to Ser-15.	-	Cys-1 to Arg-15,	Lys-28 to Asp-36,
	5320	5321	5322		5323	5324	5325		5326			5327		5328		5329		5330	ι	5331	
	1 - 57	2 - 157	120 - 257	,	1 - 150	1 - 69	1 - 342		2 - 403			135 - 356		194 - 514		349 - 507		3 - 137		31 - 402	
	2633	2634	2635	, 6,	2636	2637	2638		2639			2640		2641		2642		2643		2644	
	802090	588263	522424	1000	525837	971466	773930	1.000	718756			927520		922493		917981		921898		764851	
·	HBGBG69	HBGBG67	HBGBG52	000000000000000000000000000000000000000	HBGBG38	HBGBE12	HBGBB78	001100	HBCPV80			HBCPO75		HBCPK03		HBCJP02		· HBCJG07		HAUCC58	

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		H0294: 1 and L0748:	H0294: 1	H0294: 1 and L0608:-	L0794: 2, L0599: 2,	H0295: 1, L0763: 1,	LU6000: 1 and LU313: 1.	110223. 1 alla 10700. 1.	L0809: 2, H0685: 1,	L0776: 1 and L0780: 1.	
Thr-64 to Leu-74,	Cys-99 to Arg-107, Lys-117 to Arg-124.	Ser-24 to Trp-30, Glu-38 to Arg-50.		,			Ara 75 to Cor 50	ALB-20, 10 301-30.	Leu-30 to Lys-38,	Trp-49 to Ala-58,	Gly-75 to Pro-80.
		5332	5333	5334	5335		5336	0000	5337		
		119 - 349	25 - 132	320 - 427	1 - 303		108 475	C71 - 0C1	2 - 280		
		2645	2646	2647	2648		2640	1	2650		
		656225	518847	685374	678235		058050	1000	829556		
		HAUAW51 577959	HAUAS89 518847	HAUAQ28 685374	HAQCF25 678235		HAOCD07 058050		- HACMR08 955638		

The first column in Table 1A provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1A. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods known in the art and/or as described elsewhere herein.

- [067] The second column in Table 1A provides a unique "Contig ID" identification for each contig sequence. The third column provides the "SEQ ID NO:X" identifier for each of the reproductive system associated contig polynucleotide sequences disclosed in Table 1A. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1A, column 5, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.
- [068] The fifth column in Table 1A provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 4. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.
- [069] Column 6 in Table 1A lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In some embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1A. It will be appreciated that depending on

the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

Column 7 in Table 1A provides an expression profile and library code: count [070] for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1A, which can routinely be combined with the information provided in Table 4 and used to determine the normal or diseased tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ³³P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. The sequences disclosed herein have been determined to be predominantly expressed in reproductive

system tissues, including normal and diseased reproductive system tissues (See Table 1A, column 7 and Table 4).

- [071] Column 8 in Table 1A provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.
- [072] A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1A under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.
- [073] Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIMTM (supra). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 9, Table 1A, labeled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification

numbers (column 1), and provides a description of the associated disease in Column 2.

TABLE 1B

Clone ID	SEQ ID	CONTIG	BAC ID: A	SEQ ID	EXON
NO:Z	NO:X	ID:	,	NO:B	From-To
HAOSH55	14	952380	AL353194	5385	1-964
					1250-1399
					2650-2905
	1	1			3588-3668
		'			3971-4987
	1				5854-5963
	'				7336-7775
				1	7870-8256
			, '		8419-8895
TILOGYTEE	1	050000	17.5.5.5.6		9000-9339
HAOSH55	14	952380	AL353194	5386	1-90
HAQAK73	15	764671	AC023906	5387	1-739
HAQAK73	15	764671	AC023906	5388	1-845
HAQBS37	20	847519	AP002519	5389	1-168
					683-777
					1538-3043
				1	3578-4180
					5564-5793
			'		6266-6409
1		}	,		6412-6738
ITAIDDEO	21	620711	AT 250674	5000	7035-7451
HAUBD69	21	529711	AL359674	5390	1-138
HAUBD69 HAUBU10	21 22	529711	AL359674	5391	1-380
	22	968339	AC027538	5392	1-463
HAUBU10		968339	AC010770	5393	1-463
HAUBU10	22	968339	AC027538	5394	1-288
HAUBU10	22	968339	AC010770	5395	1-288
HBCQS93	21	930682	AL109945	5396	1-310
HBCQS93	27	020692	A C00000	5207	1220-1839
пвсозээ	21	930682	AC022307	5397	1-310
					1220-1839 2206-2683
]]		2691-2788
		1			3337-3381
HBCQS93	27	930682	AL109945	5398	1-131
HBGBF56	29	957870	AL031963	5399	1-131
HBGBF56	29	957870	AL133351	5400	1-249
HBGBF56	29	957870	AL031963	5400	1-249
HBGBF56	29	957870	AL031963 AL031963	5402	
HBGBF56	29	957870	AL133351	5402	1-429
OCTADUALI	43	193/0/0	WI 199991	3403	1-580
					1364-1792
		}			2134-2229
<u></u>	L	Ł	i	<u>,</u>	3072-3565

		. 1			3973-4080
HBGBF56	29	957870	AL031963	5404	1-349
HBGBF56	29	957870	AL133351	5405	1-349
HBGBF56	29	957870	AL031963	5406	1-349
HBGBG42	30	922396	AL096773	5407	1-518
	1		·		1341-1514
	,				3365-3956
				ł	4169-4282
	+4				4430-4892
					6254-7763
HBGBG42	30	922396	AL096773	5408	1-114
HBGBG42	30	922396	AL096773	5409	1-3033
HBGBH43	31	. 524532	AP000757	5410	1-726
HBGBH43	31	524532	AP000683	5411	1-726
HBGBH43	31	524532	AP000757	5412	1-249
]			299-451
	<u> </u>				651-926
HBGBH43	31	524532	AP000683	5413	1-249
					299-452
					651-926
HBGBS07	32	954299	AL358472	5414	1-93
			- .		229-341
		1			458-525
			'	1	639-725
		-		'	820-2416
		·			3085-3172
					3955-5506
		 			5626-6422
HBGBS07	32	954299	AL358472	5415	1-391
HBGBS07	32	954299	AL358472	5416	1-344
	<u> </u>				399-469
HBGBW60	34	954916	AC007779	5417	1-542
	'				1709-1905
IMONIICA	l	10010			3246-3805
HBGBW60	34	954916	AC015667	5418	1-542
*				,	1705-1901
IIDODWO	104	054016	1.000000		3242-3801
HBGBW60	34	954916	AC007936	5419	1-545
					1736-1917
)		3269-3833
IIDODIVA	25	524056	AT 100000	5400	6267-6287
HBGBW72	35	524956	AL139376	5420	1-448
HBGBW72	35	524956	AL139376	5421	1-526
HBGDE85	37	524875	AC020850	5422	1-912
IDODESS	127	150 4075	1.000000	-	1276-1413
HBGDE85	37	524875	AC008693	5423	1-138
HBGDE85	37	524875	AC023611	5424	1-105

HBGDE85	37	524875	AC022123	5425	1-957
HBGDE85	37	524875	A CO1 0845	5426	1332-1469
HBGDT43	39	974223	AC010845 L81574	5426 5427	1-138
HBGDT43	39	974223	AC022276	5427	1-168
HBGDT43	39	974223	AC022276 AC023653	5428	1-166
HBGDT43	39	974223	AC012102	5430	1-57
HBGDT43	39	974223	AC012102 AC048382	5431	1-140
HBGDT43	39	974223	AC011036	5432	1-115
HBGDT43	39	974223	AC068682	5433	1-193
HBGDT43	39	974223	AL356496	5434	1-153
HBGDT43	39	974223	AC006087	5435	1-35
HBGDT43	39	974223	AC016142	5436	1-129
HBGDT43	39	974223	AC027456	5437	1-150
HBGDT43	39	974223	AC016797	5438	1-98
HBGDT43	39	974223	AL356606	5439	1-116
HBGDT43	39	974223	AC025181	5440	1-159
HBGDT43	39	974223	AC055788	5441	1-139
HBGDT43	39	974223	AC027264	5442	1-170
HBGDT43	39	974223	AC026537	5443	1-147
HBGDT43	39	974223	AC000360	5444	1-132
HBGDT43	39	974223	AC023583	5445	1-153
HBGDT43	39	974223	AL161613	5446	1-63
HBGDT43	39	974223	AC062010	5447	1-155
HBGDT43	39	974223	AC004803	5448	1-154
HBGDT43	39	974223	AC023583	5449	1-59
					1391-1548
HBGDT43	39	974223	AL161613	5450	1-129
HBGDT43	39	974223	L81574	5451	1-315
					1979-2215
					2720-3771
HBGDT43	39	974223	AL356496	5452	1-131
HBGFA62	40	954306	AC016889	5453	1-700
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LIDCE A 60	10	054206	1.001.000		4424-4461
HBGFA62	40	954306	AC016889	5454	1-35
					309-427
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			,		6387-6534
HBGMD62	42	933763	AL031258	5455	1-692
					707-1312
HBGMD62	42	933763	AC068332	5456	1-671
HBGMD62	42	933763	AL031258	5457	1-349
4					438-545
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					744-903
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					1904-1966
HBGMF10	43	966132	AC068259	5458	2656-2704
I LIBOMIT IO	43	900132	AC008239	3438	1-743 914-1113
	1				1118-1586
HBGMF10	43	966132	AC068259	5459	1-466
HBGMF10	43	966132	AC068259	5460	1-279
HBGMZ39	45	947112	AC008537	5461	1-1186
HBGMZ39	45	947112	AC019337	5462	1-1182
HBGMZ39	45	947112	AC008537	5463	1-1993
12301.233	1.5	17172	110000337	3403	2105-2385
1			,	·	2736-3068
			,		4364-4489
					6546-6781
					7025-8165
HBGMZ39	45	947112	AC019337	5464	1-1991
		j			2103-2383
					2734-3066
		İ			4360-4485
	1			1	6541-6776
1					7021-8159
HBGMZ39	45	947112	, AC008537	5465	1-734
TTD G1 (570)	1	0.151.10	1.00	1	767-1001
HBGMZ39	45	947112	AC019337	5466	1-158
					291-565
IDCNDO	47	0.40010	AT 120200	5469	598-832
HBGND09	47	848219	AL139288	5467	1-1670
HBGND09	47	848219	AC023889	5468	1-1670
HBGND09	47	848219	AC026657	5469	1-1477
HBGND09	47	848219	AC023889	5470	1-440
HBGND09	47	848219	AL139288	5471	1-397
HBGND09	47	848219	AC026657	5472	1-396
HBGND09	47	848219	AC023889	5473	1-396
HBGNJ14	48	914594	AC004156	5474	1-56
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		1			3796-3919
	·				4012-4767
HBGNJ14	48	914594	AC004156	5475	1-275
HBGNO07	50	952212	AC073131	5476	1-1122
HBGNO07	50	952212	AC008403	5477	1-1630
• •					2058-2480
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			1		5334-5745
					6732-6865
•					7024-7163 ⁻
					10746-11227
					11908-12229
			[12481-13862
HBGNO07	50	952212	AC008403	5478	1-482
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		1			3067-3427
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					10395-10491
					10694-10779
				,	11107-11256
1					12127-12209
					12283-12405
					12543-13031
					13771-14040
HBGNO07	50	952212	AC008403	5479	1-128
					172-232
					1302-2232
HBGNQ31	51	887152	AL118522	5480	1-258
					787-912
					2028-2776
}]]	3673-3948
					4188-4463
HBGNQ31	51	887152	AL118522	5481	1-1160
HBGNW29	52	969396	AL139288	5482	1-1670
HBGNW29	52	969396	AC023889	5483	1-1670
HBGNW29	52	969396	AC026657	5484	1-1477
HBGNW29	52	969396	AC023889	5485	1-440
HBGNW29	52	969396	AL139288	5486	1-397
HBGNW29	52	969396	AC026657	5487	1-396
				 	

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HBGNW29	52	9.69396	AC023889	5488	1-396
HBGOB07	53	883111	AC008655	5489	1-895
HBGOB07	53	883111	AC008655	5490	1-1013
HBGOB07	53	883111	AC008655	5491	1-909
					1371-1545
	1				3390-3501
	,				4360-4549
		1			5287-5337
	191				5422-5540
	1	1			7645-7790
•					8678-8898
	1	1			9930-10085
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НЕТВН48	204	720853	AL355523	5838	1-311
HETBH48	204	720853	AC021230	5839	1-264
НЕТВН48	204	720853	AL390840	5840	1-264
НЕТВН48	204	720853	AC021230	5841	1-353
HETBH48	204	720853	AL355523	5842	1-264
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НЕТВН48	204	720853	AL355523	5844	1-236
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HETDL92	218	508990	AC074236	5855	1-435
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HETDN90	219	695021	AC069523	5857	1-258
HETDN90	219	695021	AC025545	5858	1-465
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HETDW59	222	827093	AL121780	5864	1-310
HETDW59	222	827093	AL121900	5865	1-465
HETDW59	222	827093	AL121900	5866	1-310
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					3135-3217
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HETFA40	226	523112	AL358813	5872	1-474
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HETFA40	226	523112	AC018593	5876	1-1430
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HETFA40	226	523112	AL162612	5882	1-384
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HODBE01	352	921655	AC023783	6120	1-180
HODBE01	352	921655	AC023783	6121	1-180

HODBH16 353 927781 AC016613 6123 1-286 HODBTS8 355 678444 AC027551 6124 1-100 HODBTS8 355 678444 AC021649 6125 1-376 HODBTS8 355 678444 AC021649 6125 1-376 HODBTS8 355 678444 AC08557 6126 1-376 HODBTS8 355 678444 AC008557 6128 1-338 HODBTS8 355 678444 AC008557 6128 1-338 HODBTS8 355 678444 AC002493 6127 1-311 HODBTS8 355 678444 AC002557 6128 1-338 HODBV71 357 761447 AC026372 6130 1-1224 HODBV71 357 761447 AC044856 6131 1-1147 HODBV71 357 761447 AC044856 6131 1-1147 HODBV71 357 761447 AC044856 6133 1-166 HODBV71 357 761447 AC073288 6134 1-150 HODBV71 357 761447 AC026372 6135 1-425 HODBV71 357 761447 AC026372 6135 1-425 HODBV71 357 761447 AC026372 6135 1-425 HODBV71 357 761447 AC026372 6136 1-425 HODBV71 357 761447 AC044856 6136 1-425 HODBV71 357 761447 AC044856 6136 1-425 HODBV71 357 761447 AC044856 6136 1-425 HODBV71 357 761447 AC044856 6136 1-425 HODBV71 358 967732 AC006977 6138 1-383 394-499 2564-2768 364-391 364 364 364 364 AC025415 6140 1-431 HODCJ11 362 967320 AC025415 6140 1-431 HODCJ12 363 932638 AC011618 6141 1-697 HODCJ42 363 932638 AC011618 6141 1-697 HODCJ42 363 932638 AC011618 6141 1-697 HODCJ42 363 932638 AC011618 6141 1-697 HODCJ42 363 932638 AC011618 6141 1-697 HODCJ42 363 932638 AC011618 6141 1-697 HODCJ42 363 932638 AC011618 6141 1-697 HODCJ42 363 932638 AC011618 6141 1-697 HODCJ42 363 932638 AC011618 6141 1-697 HODCJ42 363 932638 AC011618 6141 1-697 HODCJ42 363 932638 AC011618 6141 1-697 HODCJ42 363 932638 AC011618 6141 1-697 HODCJ42 363 932638 AC011618 6141 1-6						
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HODBTS8 355 678444 AC021649 6125 1-376 HODBTS8 355 678444 AC008557 6126 1-376 HODBTS8 355 678444 AC008557 6126 1-376 HODBTS8 355 678444 AC008557 6128 1-338 HODBTS8 355 678444 AC008557 6128 1-338 HODBTS8 355 678444 AC008557 6128 1-338 HODBTS8 355 678444 AC022493 6129 1-338 HODBTS8 357 761447 AC026372 6130 1-1224 HODBV71 357 761447 AC044856 6131 1-1147 HODBV71 357 761447 AC044856 6133 1-166 HODBV71 357 761447 AC044856 6133 1-166 HODBV71 357 761447 AC043856 6133 1-166 HODBV71 357 761447 AC043856 6133 1-166 HODBV71 357 761447 AC043856 6136 1-425 HODBV71 357 761447 AC043856 6136 1-425 HODBV71 357 761447 AC043856 6136 1-425 HODBV71 357 761447 AC043856 6136 1-425 HODBV71 357 761447 AC043856 6136 1-425 HODBV71 357 761447 AC043856 6136 1-425 HODBV71 357 761447 AC064856 6136 1-425 HODBV71 357 761447 AC073288 6137 1-425 HODBV71 358 967732 AC006977 6138 1-383 394-499 2564-2769 3617-3753 3863-4531 13770-13950 14233-14631 14669-14765 17151-17350 18504-18643 20745-20834 20291-22452 26464-26681 26810-22291-222452 26464-26681 26810-22291-222452 26464-26681			927781	AC016613	6123	1-286
HODBT58 355 678444 AC008557 6126 1-376 HODBT58 355 678444 AC002493 6127 1-311 HODBT58 355 678444 AC002557 6128 1-338 HODBT58 355 678444 AC002557 6128 1-338 HODBV71 357 761447 AC026372 6130 1-1224 HODBV71 357 761447 AC024836 6131 1-1147 HODBV71 357 761447 AC044856 6131 1-1147 HODBV71 357 761447 AC044856 6133 1-166 HODBV71 357 761447 AC044856 6133 1-166 HODBV71 357 761447 AC044856 6133 1-166 HODBV71 357 761447 AC025372 6135 1-424 HODBV71 357 761447 AC025372 6135 1-424 HODBV71 357 761447 AC026372 6135 1-425 HODBV71 357 761447 AC026372 6136 1-425 HODBV71 357 761447 AC044856 6136 1-425 HODBV71 357 761447 AC044856 6136 1-425 HODBV71 357 761447 AC095372 6138 1-383 394-499 2564-27681 26765-22686 28190-28224 29994-30139 30933-31056 26765-22686 28190-28224 29994-30139 30933-31056 26765-22686 28190-28224 29994-30139 30933-31056 26765-22686 28190-28224 29994-30139 30933-31056 26765-22686 28190-28224 29994-30139 30933-31056 26765-22686 28190-28224 29994-30139 30933-31056 26765-22686 28190-28224 29994-30139 30933-31056 26765-22686 28190-28224 29994-30139 30933-31056 26765-22686 28190-28224 29994-30139 30933-31056 26765-22686 28190-28224 29994-30139 30933-31056 26765-22686 28190-28224 29994-30139 30933-31056 26765-22686 28190-28224 29994-30139 3093-31056 26765-22686 28190-28224 29994-30139 3093-31056 26765-22686 28190-28224 29994-30139 3093-31056 26765-22686 28190-28224 29994-30139 3093-31056 26765-22686 28190-28224 29994-30139 3093-31056 26765-22686 28190-28224 29994-30139 3093-31056 26765-22686 28190-28224 29994-30139 3093-31056 26765-22686 28190-28224 29994-30139 3093-31056 26765-22686 28190-28224 29994-30139 3093-31056 26765-22686 28190-28224 29994-30139 3093-31056 26765-22686 2810-22624 29994-30139 3093-31056 26765-22686 26765-22686 2766-22686 27		355	678444	AC027551	6124	1-100
HODBT58 355 678444 AC008557 6126 1-376 HODBT58 355 678444 AC008557 6128 1-318 HODBT58 355 678444 AC008557 6128 1-338 HODBT58 355 678444 AC008557 6128 1-338 HODBT58 355 678444 AC0023493 6129 1-338 HODBV71 357 761447 AC026372 6130 1-1224 HODBV71 357 761447 AC044856 6131 1-1147 HODBV71 357 761447 AC044856 6133 1-1147 HODBV71 357 761447 AC073288 6132 1-1147 HODBV71 357 761447 AC073288 6132 1-1147 HODBV71 357 761447 AC073288 6133 1-166 HODBV71 357 761447 AC073288 6134 1-150 HODBV71 357 761447 AC073288 6134 1-150 HODBV71 357 761447 AC026372 6135 1-424 HODBV71 357 761447 AC073288 6137 1-425 HODBV71 357 761447 AC073288 6137 1-425 HODBV71 357 761447 AC073288 6137 1-425 HODBV71 358 967732 AC006977 6138 1-383 394-499 2564-2769 3617-3753 3863-4531 5760-6331		355	678444	AC021649	6125	1-376
HODBTS8 355 678444 AC022493 6127 1-311 HODBTS8 355 678444 AC008557 6128 1-338 HODBTS8 355 678444 AC022493 6129 1-338 HODBV71 357 761447 AC026372 6130 1-1224 HODBV71 357 761447 AC026372 6130 1-1224 HODBV71 357 761447 AC044856 6131 1-1147 HODBV71 357 761447 AC044856 6133 1-1166 HODBV71 357 761447 AC044856 6133 1-150 HODBV71 357 761447 AC044856 6133 1-150 HODBV71 357 761447 AC044856 6133 1-150 HODBV71 357 761447 AC026372 6135 1-424 HODBV71 357 761447 AC026372 6135 1-424 HODBV71 357 761447 AC026372 6135 1-424 HODBV71 357 761447 AC073288 6137 1-425 HODBV71 358 967732 AC006977 6138 1-383 394-499 2564-2769 2666-2769 2666-2769 2666-2769	HODBT58	355	678444	AC008557	6126	
HODBTS8 355 678444 AC008557 6128 1-338 HODBTS8 355 678444 AC0026372 6130 1-338 HODBV71 357 761447 AC026372 6130 1-1224 HODBV71 357 761447 AC044856 6131 1-1147 HODBV71 357 761447 AC044856 6133 1-1147 HODBV71 357 761447 AC044856 6133 1-166 HODBV71 357 761447 AC044856 6133 1-166 HODBV71 357 761447 AC073288 6134 1-150 HODBV71 357 761447 AC073288 6134 1-150 HODBV71 357 761447 AC073288 6134 1-150 HODBV71 357 761447 AC026372 6135 1-424 HODBV71 357 761447 AC073288 6136 1-425 HODBV71 357 761447 AC073288 6137 1-425 HODBV71 358 967732 AC006977 6138 1-383 394-499 2564-2769 3617-3753 3863-4531 13542-13671 13770-13950 14233-14631 14669-14765 17151-17350 14233-14631 14669-14765 17151-	HODBT58	355	678444	AC022493	6127	
HODBYS1 355 678444 AC022493 6129 1-338 HODBV71 357 761447 AC026372 6130 1-1224 HODBV71 357 761447 AC044856 6131 1-1147 HODBV71 357 761447 AC044856 6133 1-1146 HODBV71 357 761447 AC04856 6133 1-166 HODBV71 357 761447 AC073288 6132 1-1147 HODBV71 357 761447 AC073288 6134 1-150 HODBV71 357 761447 AC073288 6134 1-150 HODBV71 357 761447 AC026372 6135 1-424 HODBV71 357 761447 AC04856 6136 1-425 HODBV71 357 761447 AC04856 6136 1-425 HODBV71 358 967732 AC006977 6138 1-383 394-499 2564-2769 3617-3753 3863-4531 5760-6332 8307-8374 8604-8902 9558-9675 11022-11171 12838-12958 13542-13671 13770-13950 14233-14631 14669-14765 13542-13671 13770-13950 14233-14631 14669-14765 17151-17350 18504-18643 20745-20834 22291-22452 2291-22452 22994-30139 30933-31056 HODCJ11 362 967320 AC025415 6139 1-477 HODCJ12 363 932638 AC011618 6141 1-697 HODCJ22 363 932638 AC011618 6141 1-697 HODCL88 364 529334 AC026046 6143 1-398 848-1362	HODBT58	355	678444	AC008557	6128	
HODBV71 357 761447 AC026372 6130 1-1224 HODBV71 357 761447 AC044856 6131 1-1147 HODBV71 357 761447 AC03288 6132 1-1147 HODBV71 357 761447 AC03288 6132 1-166 HODBV71 357 761447 AC03288 6134 1-150 HODBV71 357 761447 AC026372 6135 1-424 HODBV71 357 761447 AC026372 6135 1-424 HODBV71 357 761447 AC044856 6136 1-425 HODBV71 357 761447 AC03288 6134 1-150 HODBV71 357 761447 AC03288 6136 1-425 HODCA11 358 967732 AC006977 6138 1-383 394-499 2564-2769 3617-3753 3863-4531 5760-6332 8307-8374 8604-8902 9558-9675 11022-11171 12838-12958 13542-13671 13770-13950 14233-14631 14669-14765 17151-17350 18504-18643 20745-20834 22291-22452 24644-26681 26756-26866 28190-28224 29994-3013 30933-31056 HODCJ11 362 967320 AC025415 6139 1-477 HODCJ12 363 932638 AC011618 6142 1-323 HODCJ42 363 932638 AC011618 6142 1-323 HODCL88 364 529334 AC026046 6143 1-398 848-1362	HODBT58	355	678444	AC022493	6129	
HODBV71 357 761447 AC044856 6131 1-1147 HODBV71 357 761447 AC073288 6132 1-1147 HODBV71 357 761447 AC073288 6133 1-166 HODBV71 357 761447 AC044856 6133 1-166 HODBV71 357 761447 AC026372 6135 1-424 HODBV71 357 761447 AC026372 6135 1-424 HODBV71 357 761447 AC044856 6136 1-425 HODBV71 357 761447 AC044856 6136 1-425 HODBV71 357 761447 AC073288 6137 1-425 HODCA11 358 967732 AC006977 6138 1-383 3863-4531 5760-6332 8307-8374 8604-8902 9558-9675 11022-11171 128388-12958 13542-13671 13770-13950 14233-14631 14669-14765 17151-17350 18504-18643 20745-20834 22291-22452 26464-26681 26756-26866 28190-28224 29994-30139 30933-31056 HODCJ11 362 967320 AC025415 6139 1-477 HODCJ12 363 932638 AC011618 6142 1-323 HODCL88 364 529334 AC026046 6143 1-398 848-1362	HODBV71	357	761447	AC026372		
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HODCU62	374	524314	AC078826	6175	1-462
HODCU62	374	524314	AC009246	6176	1-463
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HODDD20	379	933726	AC024636	6187	1-261
HODDD20	379	933726	AC024898	6188	1-261
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HODDG57	383	806204	AC068404	6195	1-659
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HODEI13	408	859318			1-287
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HODEK50	410	859318	AC046158	6257	1-433
HODEK50		859307	AC007075	.6258	1-729
HODEL92	410	859307	AC007075	6259	1-401
		859313	AL139296	6260	1-470
HODEO87	413	930735	AC069316	6261	1-660
HODEO87	413	930735	AP002762	6262	1-660
HODEO87	413	930735	AC069316	6263	1-253
HODEO87	413	930735	AP002762	6264	1-253
HODEO87	413	930735	AC069316	6265	1-84
HODEO87	413	930735	AP002762	6266	1-84
HODEP12	415	965534	AC012659	6267	1-490
HODEP12	415	965534	AJ132410	6268	1-490
HODEP12	415	965534	AJ132411	6269	1-490
HODEP12	415	965534	AC012659	6270	1-363
HODEP12	415	965534	AJ132410	6271	1-363
HODEP12	415	965534	AJ132411	6272	1-363
HODEP12	415	965534	AJ132410	6273	1-352

HODEP86	416	784846	AC068146	6274	1-512
HODEP86	416	784846	AC009292	6275	1-512
HODEP86	416	784846	, AC068146	6276	1-366
HODEP86	416	784846	AC068146	6277	1-252
HODEP86	416	784846	AC009292	6278	1-252
HODEP86	416	784846	AC009292	6279	1-366
HODEQ79	418	859287	AL049820	6280	1-599
HODEQ79	418	859287	AL049820	6281	1-107
HODEQ79	418	859287	AL049820	6282	1-373
HODER91	419	789661	AL136109	6283	1-3030
				1	3212-3814
			, '		9089-9408
					11724-12242
					12308-12959
1	· ·			'	23153-23254
HODEROL	410	700661		100	24314-26013
HODER91	419	789661	AC023147	6284	1-3041
					3223-3825
					9096-9415
		1			11730-12248
					12314-12965
					23152-23259 24319-26018
HODER91	419	789661	A'C022219	6285	1-3030
	"""	, 65 661	110022219	0203	3212-3814
		ļ ·			9084-9403
		İ			11717-12235
					12301-12952
					23145-23246
			·		24307-26006
HODER91	419	789661	AL136109	6286	1-344
HODER91	419	789661	AL136109	6287	1-174
HODER91	419	789661	AC023147	6288	1-122
HODER91	419	789661	AC022219	6289	1-191
HODER91	419	789661	AC022219	6290	1-344
HODES86	420	784815	AC023311	6291	1-1229
HODES86	420	784815	AC068764	6292	1-1429
HODEY08	425	972984	AC025975	6293	1-155
					3629-3751
		ļ			4620-4829
					6019-6195
			İ		7728-8138
	1				9330-9484
HODEVOO	1425	070004	4 000 5055	(00.6	9973-11639
HODEY08	425	972984	AC025975	6294	1-422
HODEY13	425	972984	AC025975	6295	1-624
HODEY13	426	859323	AC023757	6296	1-683

HODEY13	426	859323	AC023757	6297	1-304
HODEY13	426	859323	AC023757	6298	1-279
HODEY80	427	859296	AL049821	6299	1-892
HODEZ02	428	918672	AC058817	6300	1-78
					1016-1502
HODEZ02	428	918672	AL356311	6301	1-635
	4			•	1058-1135
					2074-2560
					3280-3551
HODEZ02	428	918672	AL356311	6302	1-650
HODEZ11	429	952166	AL049780	6303	1-79
				1	1741-2345
					2372-4365
	·	1			4520-4951
	ļ				4965-5086
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				1	11171-11276
	1				11444-11552
					12317-12505
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			1		13647-13742
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					30873-31422
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				ŀ	33300-33564
					33909-33994
		İ			34103-34189
		· ·			34258-35147
HODEZ11	429	952166	AC006530	6304	1-79
	i				1741-2345
					2372-4365
					4520-4951
					4965-5086

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		1. 1			8909-9080
		1 '		1	9623-9884
					10977-11278
			1		11446-11554
				-	12290-12489
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	'				13035-13103
		'] '		1	14941-15380
	(4)	j	1		15397-15607
	1		1		17239-17337
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		1	:	•	21563-21938
					24485-24568
					26177-26257
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					27439-27856
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			1		30319-30449
	, i		1.	1	30855-31404
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					33295-33452
]		33889-34006
		J			34238-35127
HODEZ11	429	952166	AL049780	6305	1-76
]		1605-2548
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HODEZ11	429	952166	AL049780	6306	1-1091
HODEZ11	429	952166	AC006530	6307	1-1090
HODEZ11	429	952166	AC006530	6308	1-269
HODFA38	430	934266	AC016992	6309	1-649
HODFB88	433	792979	AC008651	6310	1-368
		i			2142-2889
			,	1 :	3649-3930
					5148-5773
					6717-7220
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					8917-9211
				·	9671-9754
HUDED00	122	702070	A C0005551	(011	10002-10093
HODFB88 HODFD08	433	792979	AC008651	6311	1-83
	434	958371	AL354943	6312	1-396
HODFD08	434	958371	AL354943	6313	1-322

HODFD45 436 780531 AC009263 6315 1-1 HODFH02 439 915257 AC025139 6316 1-1 HODF101 441 859549 AC073389 6317 1-1 HODF101 441 859549 AC073389 6318 1-4 HODFK18 442 974313 AC068404 6319 1-12 HODFK18 442 974313 AC068404 6320 1-4 HODFC03 447 859329 AC002044 6321 1-5 HODFP40 449 921651 AC074386 6322 1-6 HODFP40 449 921651 AC074386 6322 1-6 HODFP40 449 921651 AC074386 6324 1-1 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC064889 6326 1-12 HODFP40 449 921651 AC064889 6326 1-12 HODFP40 449 921651 AC064889 6326 1-12 HODFP40 449 921651 AC064889 6326 1-12 HODFP40 449 921651 AC064889 6326 1-12 HODFP40 449 921651 AC064889 6326 1-12 HODFP06 451 934304 AL356748 6329 1-5 HODFQ06 451 934304 AL356748 6332 1-6 HODFQ06 451 934304 AL356748 6332 1-2 HODFQ06 451 934304 AL356748 6332 1-2 HODFQ06 451 934304 AL356748 6332 1-2 HODFQ06 451 934304 AL356748 6332 1-2 HODFQ06 451 934304 AL356748 6332 1-2 HODFQ06 451 934304 AL356748 6332 1-2 HODFQ06 451 934304 AL356748 6332 1-2 HODFQ06 451 934304 AL356748 6332 1-2 HODFQ06 451 934304 AC005815 6331 1-2 HODFQ06 451 934304 AC005815 6331 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFU02 453 918536 AC027603 6336 1-6 HODFU02 453 918536 AC027603 6336 1-6 HODFU04 455 806232 AC069029 6342 1-3 HODFU04 455 806232 AC069029 6342 1-3 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU54 456 965526 AC022944 6346 1-15 HODFU54 456 965526 AC022944 6346 1-15 HODFU54 456 965526 AC022944 6346 1-15 HODFW17 457 859322 AC018633 6349 1-5 HODFW17 457 859322 AC018633 6349 1-5 HODFW57 458 975259 AC026229 6351 1-42 HODFX57 458 975259 AC026229 6					1	
HODFH02	HODFD45	436	780531	AC009263	6314	1-401
HODFH01 441 859549 AC025139 6316 1-1	HODFD45		780531	AC009263	6315	1-316
HODFJO1 441 859549 AC073389 6317 1-1 HODFJO1 441 859549 AC073389 6318 1-4 HODFK18 442 974313 AC068404 6319 1-12 HODFK18 442 974313 AC068404 6320 1-4 HODFO03 447 859329 AC002044 6321 1-5 HODFP40 449 921651 AC074386 6322 1-6 HODFP40 449 921651 AC074386 6322 1-6 HODFP40 449 921651 AC074386 6324 1-1 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC004889 6325 1-12 HODFP40 449 921651 AC004889 6327 1-1 HODFP40 449 921651 AC004889 6327 1-1 HODFQ06 451 934304 AL365325 6328 1-5 HODFQ06 451 934304 AL365325 6328 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AL365748 6332 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFU02 453 918536 AC027603 6336 1-6 HODFU02 453 918536 AC027603 6336 1-6 HODFU02 453 918536 AC027603 6336 1-6 HODFU02 453 918536 AC027603 6336 1-6 HODFU04 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6351 1-14 HODFW17 457 859322 AC018633 6349 1-5 HODFW17 457 859322 AC018633 6	HODFH02	439	915257	AC025139	6316	1-706
HODFK18 442 974313 AC068404 6319 1-12 HODFK18 442 974313 AC068404 6320 1-2 HODFC03 447 859329 AC002044 6321 1-5 HODFP40 449 921651 AC074386 6322 1-6 HODFP40 449 921651 AC074386 6322 1-6 HODFP40 449 921651 AC074386 6324 1-1 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC074386 6325 1-12 HODFP606 451 934304 AL365325 6328 1-5 HODFQ06 451 934304 AL365325 6328 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6334 1-9 HODFU02 453 918536 AC011319 6337 1-6 HODFU02 453 918536 AC027603 6336 1-6 HODFU02 453 918536 AC011319 6337 1-6 HODFU02 453 918536 AC022944 6344 1-5 HODFU04 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC055807 6341 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU54 456 965526 AC022944 6346 1-15 HODFU74 455 806232 AC069029 6340 1-10 HODFU74 455 806232 AC069029 6340 1-10 HODFU74 455 806232 AC069029 6340 1-10 HODFU74 455 806232 AC069029 6351 1-14 HODFW17 457 859322 AC018633 6359 1-15 HODFW17 457 859322 AC018633 6350 1-17	HODFJ01	441	859549	AC073389	6317	1-509
HODFK18 442 974313 AC068404 6319 1-12 HODFK18 442 974313 AC068404 6320 1-2 HODFO03 447 859329 AC002044 6321 1-2 HODFP40 449 921651 AC074386 6322 1-6 HODFP40 449 921651 AC074386 6323 1-6 HODFP40 449 921651 AC074386 6324 1-1 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC004889 6326 1-12 HODFP40 449 921651 AC004889 6326 1-12 HODFP40 449 921651 AC004889 6326 1-12 HODFP40 449 921651 AC004889 6327 1-1 HODFP40 449 921651 AC004889 6327 1-1 HODFP060 451 934304 AL365325 6328 1-5 HODFQ06 451 934304 AL365325 6328 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AL365325 6331 1-2 HODFQ06 451 934304 AL365325 6331 1-2 HODFQ06 451 934304 AL365325 6331 1-2 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AC005815 6330 1-2 HODFQ06 451 934304 AC005815 6330 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFU02 453 918536 AC011319 6338 1-5 HODFU02 453 918536 AC011319 6337 1-6 HODFU02 453 918536 AC011319 6337 1-6 HODFU02 453 918536 AC011319 6337 1-6 HODFU04 455 806232 AC055807 6341 1-10 HODFU47 455 806232 AC055807 6341 1-10 HODFU47 455 806232 AC055807 6341 1-10 HODFU47 455 806232 AC055807 6341 1-10 HODFU47 455 806232 AC05807 6343 1-3 HODFU54 456 965526 AC022944 6345 1-14 HODFU54 456 965526 AC022944 6346 1-15 HODFW17 457 859322 AC018633 6349 1-5 HODFW17 457 859322 AC018633 6349 1-5 HODFW17 457 859322 AC018633 6355 1-9 HODFW17 457 859322 AC018633 6355 1-9 HODFW17 457 859322 AC018633 6355 1-9 HODFW17 457 859322 AC018633 6355 1-9 HODFW557 458 975259 AC022096 6353 1-25	HODFJ01	441	859549	AC073389	6318	1-401
HODFK18 442 974313 AC068404 6320 1-4 HODFO03 447 859329 AC002044 6321 1-5 HODFP40 449 921651 AC074386 6322 1-6 HODFP40 449 921651 AC074386 6323 1-6 HODFP40 449 921651 AC074386 6324 1-6 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC004889 6325 1-12 HODFP40 449 921651 AC004889 6327 1-1 HODFP40 449 921651 AC004889 6327 1-1 HODFP40 449 921651 AC004889 6327 1-1 HODFQ66 451 934304 AL365325 6328 1-5 HODFQ66 451 934304 AL356748 6329 1-5 HODFQ66 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AL365325 6331 1-2 HODFQ06 451 934304 AL365325 6331 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFU02 453 918536 AC027603 6336 1-6 HODFU02 453 918536 AC027603 6336 1-6 HODFU02 453 918536 AC011319 6337 1-6 HODFU02 453 918536 AC011319 6338 1-5 HODFU02 453 918536 AC011319 6337 1-6 HODFU02 453 918536 AC011319 6338 1-5 HODFU04 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC05807 6341 1-10 HODFU47 455 806232 AC05807 6341 1-10 HODFU47 455 806232 AC059029 6340 1-10 HODFU47 455 806232 AC05807 6343 1-3 HODFU47 455 806232 AC05807 6343 1-3 HODFU47 455 806232 AC05807 6343 1-3 HODFU47 455 806232 AC05807 6343 1-3 HODFU47 455 806232 AC05807 6343 1-3 HODFU47 455 806232 AC05807 6343 1-3 HODFU47 455 806232 AC05807 6343 1-3 HODFU47 455 806232 AC05807 6343 1-3 HODFU47 455 806232 AC05807 6343 1-3 HODFU47 455 806232 AC05807 6343 1-3 HODFU47 456 965526 AC022944 6346 1-19 HODFU54 456 965526 AC022944 6346 1-19 HODFU54 456 965526 AC022944 6346 1-19 HODFW17 457 859322 AC018633 6349 1-5 HODFW17 457 859322 AC018633 6349 1-5 HODFW17 457 859322 AC018633 6350 1-17 HODFW17 457 859322 AC018633 6350 1-17 HODFW17 457 859322 AC018633 6350 1-17 HODFW57 458 975259 AC026229 6353 1-25	HODFK18	442	974313	AC068404	6319	1-1251
HODFQ003 447 859329 AC002044 6321 1.5 HODFP40 449 921651 AC074386 6322 1.6 HODFP40 449 921651 AC004889 6323 1.6 HODFP40 449 921651 AC074386 6324 1.6 HODFP40 449 921651 AC074386 6325 1.12 HODFP40 449 921651 AC004889 6326 1.12 HODFP40 449 921651 AC004889 6326 1.12 HODFP40 449 921651 AC004889 6326 1.12 HODFQ06 451 934304 AL365325 6328 1.5 HODFQ06 451 934304 AL365325 6328 1.5 HODFQ06 451 934304 AL356748 6329 1.5 HODFQ06 451 934304 AL365325 6331 1.2 HODFQ06 451 934304 AL365325 6331 1.2 HODFQ06 451 934304 AL365325 6331 1.2 HODFQ06 451 934304 AL365325 6331 1.2 HODFQ06 451 934304 AL365325 6331 1.2 HODFQ06 451 934304 AL365325 6331 1.2 HODFQ06 451 934304 AC005815 6330 1.5 HODFQ06 451 934304 AC005815 6333 1.2 HODFQ06 451 934304 AC005815 6333 1.2 HODFQ06 451 934304 AC005815 6333 1.2 HODFQ06 451 934304 AC005815 6333 1.2 HODFU02 453 918536 AC011319 6333 1.2 HODFT02 452 915232 AC069418 6334 1.9 HODFU02 453 918536 AC011319 6337 1.6 HODFU02 453 918536 AC011319 6338 1.5 HODFU02 453 918536 AC011319 6338 1.5 HODFU02 453 918536 AC011319 6338 1.5 HODFU04 455 806232 AC069029 6340 1.10 HODFU47 455 806232 AC069029 6340 1.10 HODFU47 455 806232 AC069029 6340 1.10 HODFU47 455 806232 AC069029 6342 1.3 HODFU47 455 806232 AC069029 6342 1.3 HODFU47 455 806232 AC069029 6342 1.3 HODFU47 455 806232 AC069029 6342 1.3 HODFU47 455 806232 AC069029 6342 1.3 HODFU47 455 806232 AC069029 6342 1.3 HODFU47 455 806232 AC069029 6342 1.3 HODFU47 455 806232 AC069029 6340 1.10 HODFU47 455 806232 AC069029 6340 1.10 HODFU47 455 806232 AC069029 6342 1.3 HODFU47 455 806232 AC069029 6342 1.3 HODFU47 455 806232 AC069029 6340 1.10 HODFU54 456 965526 AC022944 6345 1.11 HODFU54 456 965526 AC022944 6345 1.11 HODFU54 456 965526 AC022944 6345 1.11 HODFU54 456 965526 AC022944 6345 1.11 HODFU54 456 965526 AC022944 6345 1.11 HODFU54 456 965526 AC022944 6345 1.11 HODFU54 456 965526 AC022944 6345 1.11 HODFU54 456 965526 AC022944 6345 1.11 HODFU54 456 965526 AC022944 6345 1.11 HODFU54 456 965526 AC022944 6345 1.11 HODFU54 456 965526 AC022944 6345 1.11 HODFU54 456 965526 AC02294	HODFK18	442	974313	AC068404		1-405
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HODFP40						2363-6063
HODFP40	HODFP40	449	921651	AC004889	6323	1-622
HODFP40				,		2363-6063
HODFP40 449 921651 AC074386 6325 1-12 HODFP40 449 921651 AC004889 6326 1-12 HODFP40 449 921651 AC004889 6327 1- HODFQ06 451 934304 AL365325 6328 1-5 HODFQ06 451 934304 AL365325 6328 1-5 HODFQ06 451 934304 AL365325 6330 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AL365325 6331 1-2 HODFQ06 451 934304 AC005815 6332 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFU06 451 934304 AC005815 6333 1-2 HODFU52 452 915232 AC069418 6334 1-9 HODFU52 453 918536 AC011319 6337 1-6	HODFP40	449	921651	AC074386	6324	1-93
HODFP40 449 921651 AC004889 6326 1-12 HODFP40 449 921651 AC004889 6327 1- HODFQ06 451 934304 AL365325 6328 1-5 HODFQ06 451 934304 AL356748 6329 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AL356748 6329 1-5 HODFQ06 451 934304 AC05815 6330 1-5 HODFQ06 451 934304 AL356748 6332 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC069418 6332 1-2 HODFQ06 451 934304 AC069418 6334 1-9 HODFU5 452 915232 AC069418 6334 1-9 HODFU52 452 915232 AC078803 6335 1-9	HODFP40	449	921651			1-1213
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HODFQ06 451 934304 AL356748 6329 1-5 HODFQ06 451 934304 AC005815 6330 1-5 HODFQ06 451 934304 AL365325 6331 1-2 HODFQ06 451 934304 AL356748 6332 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFT52 452 915232 AC069418 6334 1-9 HODFT52 452 915232 AC078803 6335 1-9 HODFU02 453 918536 AC027603 6336 1-6 HODFU02 453 918536 AC011319 6338 1-5 HODFU02 453 918536 AC027603 6339 1-5 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC05807 6341 1-10	HODFQ06	451	934304			1-529
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HODFQ06 451 934304 AL365325 6331 1-2 HODFQ06 451 934304 AL356748 6332 1-2 HODFQ06 451 934304 AC005815 6333 1-2 HODFT52 452 915232 AC069418 6334 1-9 HODFT52 452 915232 AC078803 6335 1-9 HODFU02 453 918536 AC027603 6336 1-6 HODFU02 453 918536 AC011319 6337 1-6 HODFU02 453 918536 AC011319 6338 1-5 HODFU02 453 918536 AC011319 6338 1-5 HODFU02 453 918536 AC011319 6338 1-5 HODFU047 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC055807 6341 1-10 HODFU47 455 806232 AC055807 6343 1-33 </td <td>HODFQ06</td> <td>451</td> <td></td> <td></td> <td></td> <td>1-529</td>	HODFQ06	451				1-529
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HODFQ06 451 934304 AC005815 6333 1-2 HODFT52 452 915232 AC069418 6334 1-9 HODFT52 452 915232 AC078803 6335 1-9 HODFU02 453 918536 AC027603 6336 1-6 HODFU02 453 918536 AC011319 6337 1-6 HODFU02 453 918536 AC011319 6338 1-5 HODFU02 453 918536 AC027603 6339 1-5 HODFU02 453 918536 AC027603 6339 1-5 HODFU02 453 918536 AC027603 6339 1-5 HODFU47 455 806232 AC069029 6340 1-10 HODFU47 455 806232 AC055807 6341 1-10 HODFU47 455 806232 AC055807 6343 1-38 HODFU54 456 965526 AC022944 6344 1-58 </td <td>HODFQ06</td> <td>451</td> <td>934304</td> <td></td> <td></td> <td>1-290</td>	HODFQ06	451	934304			1-290
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HODFT52 452 915232 AC078803 6335 1-9 HODFU02 453 918536 AC027603 6336 1-6 HODFU02 453 918536 AC011319 6337 1-6 HODFU02 453 918536 AC011319 6338 1-5 HODFU02 453 918536 AC027603 6339 1-5 HODFU47 455 806232 AC069029 6340 1-10° HODFU47 455 806232 AC055807 6341 1-10° HODFU47 455 806232 AC069029 6342 1-38 HODFU47 455 806232 AC055807 6343 1-38 HODFU47 455 806232 AC055807 6343 1-38 HODFU54 456 965526 AC022944 6344 1-58 HODFU54 456 965526 AC022944 6345 1-10 HODFW17 457 859322 AC018633 6349	HODFT52	452				1-988
HODFU02 453 918536 AC027603 6336 1-60 HODFU02 453 918536 AC011319 6337 1-60 HODFU02 453 918536 AC011319 6338 1-5 HODFU02 453 918536 AC027603 6339 1-5 HODFU47 455 806232 AC069029 6340 1-10° HODFU47 455 806232 AC055807 6341 1-10° HODFU47 455 806232 AC069029 6342 1-38 HODFU47 455 806232 AC055807 6343 1-38 HODFU47 455 806232 AC055807 6343 1-38 HODFU54 456 965526 AC022944 6344 1-58 HODFU54 456 965526 AC022944 6345 1-10 HODFW17 457 859322 AC018633 6348 1-61 HODFW17 457 859322 AC018633 6349 <	HODFT52	452				1-994
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HPMGV15	861	582596	AC025175	7036	1-269
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HTLBG83	1397	527942	AC009466	7805	1-368
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DILEB14	1424	573464	AL353647	7839	1-1046
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HTLED72	1425	906989	AC011442	7844	1-281
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HTLEI47	1430	573460	AC025959	7850	1-307
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HUVDP95	1628	530386	AC016901	8253	1-561
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HUVDU51	1630	868660	AC025225	8263	1-289
HUVDU51	1630	868660	AL009183	8264	1-638
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HUVDU51	1630	868660	AC025225	8265	1-216
HUVDU51	1630		4.0005330	2000	221-292
HUVDU51	1630	868660	AC025220	8266	1-638
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IIO VIEUS	1000	922009	AL33/021	03/3	1-226
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HUNAG41	1691	711543	AC015480	8388	1-564
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HTTHJ56	1752	944914	AC013715	8501	1-713
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HTTFG12	1753	751809	AC068289	8502	
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					3366-4135
HTTEQ59	1755	739445	AC022073	9505	4148-4842
11111000	1,733	133443	AC022073	8505	1-113
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HTTEQ01 1756 917156 Z83845 8506 1-684 HTTEQ01 1756 917156 Z83845 8506 1-684 HTTEQ01 1756 917156 Z83845 8507 1-504 658-707 1786-3045 3351-4099 HTTEO53 1758 728344 AC074116 8509 1-280 905-4002 HTTEO53 1758 728344 AC074116 8509 91-280 905-3688 HTTEO53 1758 728344 AC074116 8511 1-99 HTTEO53 1758 728344 AC074116 8511 1-99 HTTEO53 1758 728344 AL162722 8512 1-99 HTTED53 1758 728344 AL162722 8512 1-99 HTTED55 1759 573669 AC068707 8513 1-134 1054-1276 1688-1740 2572-2856 2936-3012 3748-3941 4846-499 5395-5467 5675-6158 HTTED55 1760 932294 AL031672 8515 1-1512 HTTEB05 1760 932294 AL031672 8515 1-1512 HTTEB05 1760 932294 AL031672 8516 1-489 HTTED55 1760 932294 AL031672 8518 1-489 HTTED55 1760 932294 AL031672 8518 1-489 HTTED55 1760 932294 AL031672 8518 1-489 HTTED55 1760 932294 AL031672 8518 1-489 HTTED55 1760 932294 AL031672 8518 1-489 HTTED55 1760 932294 AL031672 8518 1-489 HTTED55 1760 932294 AL031672 8518 1-489 HTTED55 1760 932294 AL031672 8518 1-489 HTTED55						
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HTTCQ95	1766	796674	AC026065	8530	1-100
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HTTBR42	1770	714220	AL157409	8531	1-570
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					477-893
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HTTBM03	1773	925409	AC031984	8536	1-766
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1939	870723	AC016976	8826	1-425
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					1749-2085 4498-4845
	,				4983-5323 5582-5898
					7689-7884
		ļ			8673-9102
					9403-9993
HBGND04	2623	926973	AP001324	10149	1-50
				****	2675-3022

					3159-3500
					3759-4075
					5866-6061
	,		' ,	1	6851-7280
					7581-8170
HBGND04	2623	926973	AP000560	10150	1-93
HBGND04	2623 .	926973	AC011686	10151	1-3688
		}			3726-3971
					4813-5933
	'."				6168-6648
HBGND04	2623	926973	AP001324	10152	1-2189
HBGND04	2623	926973	AP000560	10153	1-2577
HBGMT82	2624	954374	AP000449	10154	1-1171
					1258-1698
HBGMT82	2624	954374	AC055871	10155	1-1174
				- [1258-2167
				1	2367-2591
			İ		2949-3669
HBGMT82	2624	954374	AJ002553	10156	1-286
HBGMT82	2624	954374	AC051660	10157	1-1173
	•		1	1	1256-2164
					2364-2588
					2946-3665
				' '	3840-4059
				,	4135-4280
HBGMT82	2624	954374	AJ002553	10158	1-137
					586-767
HBGMT82	2624	954374	AC051660	10159	1-473
HBGMT82	2624	954374	AC051660	10160	1-82
					433-487
		ì			583-1153
· · · · · · · · · · · · · · · · · · ·					1232-1412
HBGMS69	26251	754392	AC010427	10161	1-757
HBGMS69	2625	754392	AC026740	10162	1-757
HBGMS69	2625	754392	AC016498	10163	1-757
HBGMS69	2625	754392	AC010427	10164	1-424
HBGMS69	2625	754392	AC026740	10165	1-115
					765-1186
HBGMS69	2625	754392	AC010427	10166	1-416
HBGMS69	2625	754392	AC016498	10167	1-424
HBGMS69	2625	754392	AC026740	10168	1-227
				1	229-411
HBGMS69	2625	754392	AC016498	10169	1-417
HBGMO78	2626	773043	AL139220	10170	1-877
					1373-1821
					2802-3760
					3769-4392

-					4968-5660
HBGMO78	2626	773043	AL357079	10171	1-878
					1374-1822
		ľ	İ		2800-3758
					3767-4390
	ļ				4968-5660
HBGMO78	2626	773043	AC005038	10172	1-878
					1374-1822
				,	2803-3761
				ŀ	3770-4393
					5226-5663
	}				5775-5902
					6120-6317 9252-9488
		'			9701-10068
				1	11666-11809
HBGMO78	2626	773043	AC005038	10173	1-1280
					1472-1999
		ŀ			2116-3378
HBGMO78	2626	773043	AC005038	10174	1-1182
				1 .	1260-1342
				'	1447-2170
			,	1	2566-3297
				ļ ·	3550-3759
					4478-4598
		•			4690-4919
HBGMG81	2627	880276	AC026905	10175	5109-5311
HBGMG81	2627	880276	AC020903 AC027551	10176	1-38 1-38
HBGMG81	2627	880276	AL365398	10177	1-38
HBGMG81	2627	880276	AC020714	10177	1-440
1120111001	2027	000270	710020714	10170	1153-1430
HBGMG81	2627	880276	AC006512	10179	1-247
				[,	2812-2918
			1		3488-3953
					3964-4527
•		1	ĺ		4683-5151
		·			5330-9121
					9884-10335
					10748-10781
		'		1	10960-11055
					11323-12111
	1				12127-12791
					12911-13262
					13266-13791
		ł			14696-14866
	L			J	15107-15207

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'					16551-16955
					17174-17614
			•		18504-18749
					19392-19660
ļ					19720-20075
					20785-21233
'		•		ļ .	21290-21733
					23618-23649
					23982-24188
]	24481-24573
					24741-25003
		,			26591-26705
					26738-27249
		,			28479-28858
				ŀ	29065-31669
		ļ		} · 1	31926-32887
					33667-34293
					35229-35682
IIDC) (CO1	2627	000077	1.0007551	10100	38114-38771
HBGMG81 HBGMG81	2627 2627	880276 880276	AC027551	10180	1-131
HBGMG81	2627		AC020714	10181	1-842
UDOMOSI	2027	880276	AC006512	10182'	1-818
		,	1		963-1440
					1469-1958
			•		2220-3076
					3455-3663
			<u> </u>		3931-4285 4549-4632
					4549-4032
					5245-5337
					5461-5775
HBGMG81	2627	880276	AC020714	10183	1-1160
HBGMG81	2627	880276	AC006512	10184	1-738
HBGFS88	2628	914032	AC010687	10185	1-144
		314032	-1001007		1186-2261
HBGFS88	2628	914032	AC005369	10186	1-649
					870-1459
					2153-2236
					2499-2621
1					2722-2856
			<u>'</u>		3368-3523
					4084-4227
					4315-4423
					4652-4777
					5094-5193
	J				5519-5647
					5739-5983
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			1		6144-6260
		1.			6507-6661
				.]	7019-8042
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				1	9392-9485
· ·			j.		10579-10703
				1	11915-11969
	· ·	,		<u> </u>	11976-12107
		'			12491-12570
1	***				12627-13146
	<u>'</u>				14186-15261
HBGFS88	2628	914032	AC010687	10187	1-109
HBGFS88	2628	914032	AC005369	10188	1-109
HBGFS88	2628	914032	AC005369	10189	1-86
1					357-503
HBGFG53	2629	727748	AC026666	10190	1-791
HBGFG53	2629	727748	AC026283	10191	1-1463
HBGFG53	2629	727748	AC026666	10192	1-244
HBGFG53	2629	727748	AC026283	10193	1-319
HBGFG53	2629	727748	AC026283	10194	1-297
			110020203	10154	330-1653
HBGDA74	2632	832888	AP001100	10195	1-102
				10.55	420-643
				1	761-840
	1		'	'	1681-1796
				'	1917-2066
					2158-2417
					3079-3200
					3281-3345
1 .	1				3436-4001
					4062-4625
HBGDA74	2632	832888	AP000481	10196	1-64
	1 .			1	188-337
	,				429-688
	`				1350-1471
					1552-1616
					1707-2271
					2332-2895
HBGDA74	2632	832888	AP000481	10197	1-540
}			12000.01		1012-1076
}					1166-1313
					1698-1760
				·]	1787-1874
					1971-2103
					2575-2765
					3027-3073
HBGDA74	2632	832888	AP001100	10198	1-540
				-0.70	1-240

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	1	1. 1		'	1012-1076
I TO CO CO CO	\	1		1	1166-1198
HBGBG52	2635	522424	AL136458	10199	1-294
	•		,		506-707
Ì	1				1776-2011
					2535-4755
					5405-5870
		4 ,			5873-6187
	100				7245-7361
					7501-7967
					9091-9694
					9825-10069
	·		1		10913-11066
IIDCDC62	2625	500404	1 6060040	10000	11815-12127
HBGBG52	2635	522424	AC069042	10200	1-245
HBGBG52	2635	522424	AL162739	10201	1-245
HBGBG52	2635	522424	AL136458	10202	1-112
HBGBG52	2635	522424	AL162739	10203	1-604
HBGBB78	2638	773930	AC008403	10204	1-1630
					2058-2480
				1	4161-4577
					5334-5745
			,		6732-6865
		}	1	. , `	7024-7163
		{		· ·	10746-11227
		'			11908-12229
HBGBB78	2638	773930	AC008403	10205	12481-13862 1-482
IIDODD/0	2030	773930	AC008403	10203	2074-2191
					3067-3427
		,		·	3514-3666
					4176-4250
1	<u> </u>				4718-4839
	'				5313-5692
					10395-10491
					10694-10779
					11107-11256
					12127-12209
					12283-12405
					12543-13031
					13771-14040
HBGBB78	2638	773930	AC008403	10206	1-128
					172-232
					1302-2232
HBCPO75	2640	927520	AC069279	10207	1-596
					4098-4739
	'				5478-5650
	·			·	

,					6045-6577
					6988-7374
HBCPK03	2641	922493	AC011719	10208	1-923
HBCPK03	2641	922493	AP001104	10209	1-923
HBCPK03	2641	922493	AP001324	10210	1-923
HBCJP02	2642	917981	AP000795	10211	1-935
1					1442-2055
		,			2120-2651
HBCJP02	2642	917981	AC018775	10212	1-935
	ļ				1442-2055
	_	·			2120-2653
HBCJP02	2642	917981	AC011088	10213	1-254
					1365-1474
					2669-2833
				•	3184-3483
				1	3853-4390
					9055-9989
					10496-11109
					11174-11705
					14770-14905
					15601-16949
			Ì	'	24077-24508
		•	,		25195-25367
			<u>'</u>		27155-27556
			1 '		28055-28776
					29078-30192
	1				35093-35409
				ĺ	37099-37222
					37906-38308
					39047-39871
	İ				40730-41079
	ĺ				41464-41939
IIDOMOO	2642	017001	1.0011000	10011	42882-44161
НВСЈР02	2642	917981	AC011088	10214	1-379
HBCJG07	2643	951898	AL158821	10215	1-179
IMCICOZ	2642	061000	AT 150001	10016	415-1143
HBCJG07	2643	951898	AL158821	10216	1-401
			İ		691-974
TIATIOGEO	2644	764051	4.600.600	1.0015	1279-2180
HAUCC58	2644	764851	AC006329	10217	1-159
					388-562
					976-1372
					1647-1772
					1796-2110
					2230-2442
					3917-4291
	<u> </u>			<u> </u>	4695-4807

					
,			Ì		4854-4990
				1 '	5212-5512
			,		6837-7180
					7293-7754
1				1	8183-8372
					8413-8665
'					9645-9815
1		1	,		10677-11353
				•	11786-12287
77.47.10050	10644	 			12400-13026
HAUCC58	2644	764851	AC006329	10218	1-338
TTATTA COO	0546	-		 	1214-1745
HAUAS89	2646	518847	AC008044	10219	1-119
		,	ŀ		2461-2803
	-		•		4346-4547
		ļ		,	5141-5577
· ·		1			7669-7807
	1				7933-8244
,	Ì	1			8849-8944
ļ	}				9208-10426
				1 .	12618-12735
		ŀ		·	13747-14129
HAUAS89	2646	518847	AC008044	10220	14744-15306
IIAUASO	2040	310047	AC008044	10220	1-55
HAUAS89	2646	518847	AC008044	10221	3400-3593 1-495
HAUAQ28	2647	685374	AC027523	10222	1-1260
HAUAQ28	2647	685374	AC027323	10223	1-1260
HAUAQ28	2647	685374	AP001848	10223	1-1260
HAUAQ28	2647	685374	AC027523	10225	
HAUAQ28	2647	685374	AC027323 AC011774	10225	1-535
HAUAQ28	2647	685374	AP001848	10227	1-535
HACMR08	2650	955638	AC012318	10227	1-535
HACMR08	2650	955638	AL121844	10228	1-147
HACMR08	2650	955638	AC013553	 	1-219
IIACIVINO	2030	933036	AC013533	10230	1-280 2514-2880
				,	3507-3803
]]		5834-5958
					8010-8114
				1	9356-9430
				[13100-13296
]					14272-14676
					14966-15305
				1	15968-16340
	1	1	l		16952-17049
		1			17302-17464
	1.	1			18685-19018
L	J	L	L	L	10000-12010

		1 .			19824-20193 20412-20822 21304-21778
					22964-23210 23327-23714
					24031-24645 24690-24771 26370-27118
HACMR08	2650	955638	AL121656	10231	1-2346
	<u> </u>			·	2487-3703 3832-4167

[074] Table 1B summarizes additional polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) contig nucleotide sequence identifiers (SEO ID NO:X)), and genomic sequences (SEQ ID NO:B). The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to each contig sequence. The second column provides the sequence identifier, "SEQ ID NO:X", for each contig sequence. The third column provides a unique contig identifier, "Contig ID:" for each contig sequence. The fourth column, provides a BAC identifier "BAC ID NO:A" for the BAC clone referenced in the corresponding row of the table. The fifth column provides the nucleotide sequence identifier, "SEQ ID NO:B" for a fragment of the BAC clone identified in column four of the corresponding row of the table. The sixth column, "Exon From-To", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:B which delineate certain polynucleotides of the invention that are also exemplary members of polynucleotide sequences that encode polypeptides of the invention (e.g., polypeptides containing amino acid sequences encoded by the polynucleotide sequences delineated in column six, and fragments and variants thereof).

TABLE 2

NT	·	7		899)		337	,		7		-2	123	346		315		331	209	246	235			126
NT		597		75)		2			129		127	392	188		85	·	35	3	199	101	···	<u> </u>	-
Score/ Percent	Identity	%56		.118) 	,	78%	ì	,	92%	_	%16	51%	%99		20%		. 58%	46%	87%	100%		,	%06 ·
PFam/NR Accession Number		gb AAC98919.1		PF00001		•	gb AAF23952.1 AF2	00357_1		pir JC5238 JC5238		dbj BAA03143.1		dbj BAA92096.1		gb AAF29087.1 AF1	61472_1	dbj BAA15799.1			gb AAB39864.1			gb AAA24544.1
PFam/NR Description		(AF034780)	lysosphingolipid receptor Edg5 [Homo saniens]	PFAM: 7 transmembrane	receptor (rhodopsin	family)	(AF200357) pantothenate	kinase 1 beta [Mus	musculus]	galactosylceramide-like	protein, GCP - human	BasR [Escherichia coli]		(AK002129) unnamed	protein product [Homo sapiens]	(AF161472) HSPC123	[Homo sapiens]	Invasin. [Escherichia coli]	,		paired-like homeodomain	protein PRX2 [Homo	sapiensj	core protein [Escherichia coli]
Analysis Method		blastx.2		HMMER	1.8		blastx.2	ı		blastx.2		blastx.2	,	blastx.2		blastx.2		blastx.2			blastx.2			blastx.2
SEQ ID	NO:X	13		2651			14			15		18		23		30		33	·		34			37
Contig ID:		847688		887805			952380			764671		839982	, 6000	928/56		922396		525352			954916			524875
Clone ID NO:Z		H7MDD72		H7MDD72			HAOSH55			HAQAK73		HAQBJ71	00010011	HBCJS08		HBGBG42		HBGB179			HBGBW60			HBGDE85

HBGDS13	971696	38	HMMER	PFAM: Zinc finger, C2H2	PE00096	151	167	211
·			1.8	type) F	707	1117
			blastx.2	rhaR (AA 1-312)	emb CAA29453.1	%98	257	129
				[Escherichia coli]		95%	141	100
HBGDT43	974223	39	blastx.2	(AK000496) unnamed	dbj BAA91205.1	%08	445	311
				protein product [Homo				
				sapiens]				
HBGMD05	870189	41	blastx.2	Fos-related antigen	gb AAA79137.1	%88	4	207
				[Rattus norvegicus]	,			
HBGMZ39	947112	45	HMMER 2.1.1	PFAM: Cytochrome P450	PF00067	59.5	209	372
			blastx.2	cytochrome P450 2B -	nir/IT0676/IT0676	430%	5,43	277
						P/Cr	200	7/7
				green monkey	1	43%	299	168
30 41 50 41.						40%	165	121
HBGND09	848219	47	blastx.2	(AF156271) RING finger	gb AAD40286.1	%16	2	367
			,	protein terf [Homo	,			
				sapiens				
HBGNM13	912730	49	blastx.2	(AE000420) putative	gb AAC76465.1	%16	188	75
				regulator [Escherichia				
				colij				-
HBGN007	952212	20	blastx.2	(AK000496) unnamed	dbj BAA91205.1	81%	383	303
				protein product [Homo		33%	169	53
				sapiens]				
HBGNQ31	887152	51	blastx.2	(AF022821) putative	gb AAD09338.1	%95	10	183
				potassium channel DP4				
				[Mus musculus]				
HBGPH02	918513	58	blastx.2	alpha 1C adrenergic	dbj BAA06901.1	71%	452	327
				receptor isoform 2 [Homo		93%	339	292
				sapiens]		%69	292	254

HBGPV05	930706	09	blastx.2	(AE000157) orf,	gb AAC73617.1	77%	617	36
_				hypothetical protein		47%	555	346
				[Escherichia coli]		%92	619.	545
HBGTR84	886529	65	blastx.2	(AL137718) hypothetical protein [Homo saniens]	emb CAB70890.1	30%	21	581
HBNAY58	558193	72	blastx.2	human elongation factor-	emb CAA79716.1	73%	. 263	400
				l-delta [Homo sapiens]				
HCBNW02	950897	08	blastx.2	(AC008372) unknown [Homo saniens]	gb AAF23326.1 AC0	44%	1	270
HCBOG03	922351	82	HMMER 1.8	PFAM: Zinc finger, CCHC class	PF00098	6.1	95	112
HCHAD40	923764	88	blastx.2	unidentified reading frame	emb CAA23893.1	85%	211	152
		•		[Escherichia coli]		87%	311	264
						100%	264	226
						87%	325	302
нснво03	923763	92	bľastx.2	unidentified reading frame [Escherichia coli]	emb CAA23893.1	%86	334	158
HCHND96	880585	94	blastx.2	(AF141920) roadblock Drosophila melanogästerl	gb AAD45986.1 AF1 41920 1	75%	174	455
HCHOA76	740102	95	blastx.2	(AK000385) unnamed	dbi BAA91131.1	64%	499	335
				protein product [Homo	-	75%	266	195
				sapiens]	•	28%	336	286
HCHOD89	954866	96	blastx.2	cytochrome P450 2C34v2	gb AAA79105.1	53%	94	189
				[Sus scrofa]		33%	9	98
НСНОВ06	934941	86	blastx.2	(AK001623) unnamed	dbj BAA91793.1	.%68	183	440
				protein product [Homo sapiens]		, <u>, , , , , , , , , , , , , , , , , , </u>		
HCOOZ11	902396	105	HMMER	PFAM: Src homology	PF00018	5.22	179	214
			1.8	domain 3				

		,	blastx.2	(AL022238) dJ1042K10:2	emb CAA18266.1	100%	182	589
	·····	······································		GENSCAN, FGENES and	·		ı	· ·
				GENEWISE) [Homo			,	
HFA A A 42	063100	=	47.041	sapiens				
71000	001505	111	HMMEK 1.8	PFAM: Zinc tinger, C2H2 tyne	PF00096	20.88	114	176
			blastx.2	(AF117814) odd-skinned	ab A AD37115 1 AE1	7007	,	3
				related 1 protein [Mus	17814 1	0/2/0	18	177
				musculus]	1			
HEEAH07	851219	124	blastx.2	(AL137469) hypothetical	emb CAB70754.1	100%	178	270
7				protein [Homo sapiens]			0	2
HEEAJ58	785121	125	blastx.2	(AF080470) pallid [Homo	gb AAF08343.1 AF0	100%	169	258
				sapiens]	80470_1	100%	06	170
20 A 176	00000	, ;				%99	169	252
o/ fyzgu	88/321	971	blastx.2	truncated protein	gb AAB31222.1	87%	94	23
				[Saccharomyces				}
, 0, 1, 1				cerevisiae]				
HEEAWOI	851213	133	blastx.2	(AK000385) unnamed	dbj BAA91131.1	72%	371	210
				protein product [Homo				•
HEGABSA	823000	127	477.07.071	Sapiens				
+00007	006670	/51	HMMEK	PFAM: Ank repeat	PF00023	36.9	205	315
			2.1.1					
			blastx.2	ankyrin 3 [Mus musculus]	gb AAB01605.1	37%	28	348
HEGA182	955291	140	blastx.2	putative [Rattus	emb[CAA52297.1]	28%	2	276
				norvegicus]		%96	370	453
24.00	10000	,				31%	179	283
HEGAU83	/8083/	142	HMMER	PFAM: IG	PF00047	9.4	234	305
			1.8	(immunoglobulin)				2

				superfamily				
HEGAZ61	950033	149	HMMER 2.1.1	PFAM: Reprolysin family propeptide	PF01562	141.4	276	260
			blastx.2	epididymal apical protein	emb CAA46929.1	95%	09	. 560
				I-precursor [Macaca				
HEPAB70	557149	151	hlastx 2	ORF ID:0209#7	dhilBA 435540 11	830%	8	002.
		1	_	Escherichia colil	1. OF COCK is tallow	87%	43	141
				,		%06	326	355
HEPAP02	926914	160	blastx.2	WW domain binding	gb AAD10950.1	100%	59	163
			•	protein-1 [Homo sapiens]		•		,
HEPBA39	919875	163	HMMER	PFAM: lipocalins	PF00061	26.73	117	-605
			1.8			!		
			blastx.2	(AF109472) epididymal	gb AAC98311.1	42%	314	99
				protein 52 [Oryctolagus			<u> </u>	
				cuniculus				
HEPBH38	707524	169	blastx.2	(AK000385) unnamed	dbj BAA91131.1	23%	319	146
				protein product [Homo				
				sapiens]				
HEPCT32	947081	179	blastx.2	(AJ243311) matrix	emb CAB46656.1	32%	292	636
				metalloproteinase-2		39%	797	477
	-			[Equus caballus]		- 32%	24	569
				,		27%	18	275
HEPCU32	931824	180	HMMER	PFAM: lipocalins	PF00061	11.52	808	627
,			1.8					
			blastx.14	mE-RABP minor form	gi 3241966 gb AAC2	30%	502	630
				protein [Mus musculus]	4316.1	20%	336	482
1						%09	279	308
HEPCU32	946975	2652	HMMER	PFAM: lipocalins	PF00061	11.52	405	524

			1.8					
			blastx.14	mE-RABP minor form	gi 3241966 gb AAC2	30%	399	527
				protein [Mus musculus]	4316.1	70%	233	379
						%09	176	205
HEQAE65	911438	181	HMMER	PFAM: Myosin head	PF00063	35.1	20	148
			2.1.1	(motor domain)				
			blastx.2	(AF234532) myosin X	gb AAF37875.1 AF2	100%	2	154
			ſ	[Homo sapiens]	34532_1	4		_
HEQAH70	069669	182	blastx.2	(AJ007558) nucleoporin	emb CAA07553.1	85%	176	. 343
				155 [Homo sapiens]		%16	49	171
			-			- 929	288	347
HEQA076	769973	183	blastx.2	(AF053944) aortic	gb AAC25585.1	100%	148	201
				carboxypeptidase-like		100%	_	45
				protein ACLP [Homo .		34%	592	430
				sapiens]		34%	569	400
						31%	329	- 433
				1	'	36%	311	424
		•				24%	500	415
						21%	390	431
						35%	314	418
HETAF89	209300	189	blastx.2	(AF209069) hypothetical	gb AAF16744.1 AF2	%86	72	. 248
				protein [Homo sapiens]	09069_2	ŀ		
HETAH66	799665	191	blastx.2	IgE-binding factor [Mus	gb AAA37291.1	21%	109	216
				musculus]		37%	20	115
HETAZ13	536192	201	HMMER 1.8	PFAM: Src homology	PF00018	3.73	165	245
HETDI03	925489	217	hlacty 2	Tinc finger protein	251 A C50250 11	7007	9	:
	10107		Olasta.2	ZNEC102 FILE	goldac30200.1	18%	81	13.
				ZNF133 [Homo sapiens]		40%	15	134
						74%	15	131

нетно63	745503	244	blastx.2	rhophilin [Mus musculus]	gb AAC52388.1	51%	160	450
						35%	47	157
HETHR24	851412	246	HMMER	PFAM: Fibrillar collagen	PF01410	53.4	201	308
			2.1.1	C-terminal domain				
			blastx.2	type V collagen [Gallus	gb AAB41274.1	%59	213	308
				gallus]	٠	48%	98	214
						41%	336	437
HETIF01	966185	248	blastx.2	fused-ccdB [Escherichia coli]	emb CAA71575.1	94%	122	223
HETIJ84	766589	250	blastx.2	(AF161432) HSPC314 [Homo sapiens]	gb AAF28992.1 AF1 61432 1	75%	1	246
HETJX04	927120	262	HMMER 2.1.1	PFAM: C2 domain	PF00168	150.4	6	260
	·		blastx.2	(AB025258) granuphilin-a	dbj BAA84656.1	94%	9	683
			ı	[Mus musculus]		21%	685	831
					•	48%	719	859
HETJY11	966194	263	blastx.2	(AK000496) unnamed	dbj BAA91205.1	%0/	3	227
				protein product [Homo sapiens]				
HETKV26	910030	270	HMMER 2.1.1	PFAM: Oxysterol-binding protein	PF01237	19	2	364
HETKZ65	941045	272	blastx.14	(AF067972) DNA	gi 4927370 gb AAD3	84%	63	500
				cytosine methyltransferase	3084.1 AF067972_1	72%	455	520
				3 alpha [Homo sapiens]		100%	520	537
HLWAH41	944774	283	HMMER 2.1.1	PFAM: ENV polyprotein (coat polyprotein)	PF00429	150	82	714
			blastx.2	(AF108843) env protein [Homo sapiens]	gb AAD34324.1	20%	67	711
HLWAI13	920690	284	blastx.14	(AL117538) hypothetical	gi 5912069 emb CAB	100%	496	588

			,	protein [Homo sapiens]	55984.1			
HLWAJ64	746460	285	HMMER 1.8	PFAM: Zinc finger, CCHC class	PF00098	6.51	_ 357	337
HLWAK69	694216	286	HMMER 1.8	PFAM: Zinc finger, C2H2 type	PF00096	6.05	118	168
HLWAR77	947484	288	HMMER 1.8	PFAM: 7 transmembrane receptor (rhodopsin family)	PF00001	214.2	1287	553
			blastx.2	(AF119815) G-protein- coupled receptor [Homo sapiens]	gb AAD22047.1	%66	1287	292
HLWBQ84	782938	299	HMMER 1.8	PFAM: HMG (high mobility group) box	PF00505	9.46	21	110
HLWFG82	929647	317	HMMER 2.1.1	PFAM: Immunoglobulin domain	PF00047	32.6	121	330
			blāstx.2	Frazzled [Drosophila melanogaster]	gb AAC47314.1	37%	52 488	411
HNOAX12	969363	330	blastx.2	line-1 reverse transcriptase [Homo - sapiens]	gb[AAC51337.1]	41%	710	465
HODAG37	529410	339	blastx.2	(AC004416) WUGSC:H_RG013N12.g w.1335199.a gene product Homo saniens	gb AAC06181.1	54%	229	131
HODBT58	678444	355	blastx.2	(AF118086) PRO1992 [Homo sapiens]	gb AAF22030.1 AF1 18094 25	%69	F	129
HODCV09	973487	375	blastx.2	(AF034209) RIG-like 5-6 [Homo sapiens]	gb AAB92665.1	100%	130	207
НОДДО НОДДО	919295	392	blastx.2	(AF161393) HSPC275	gb AAF28953.1 AF1	%96	3	245

				[Homo sapiens]	61393 1			
HODDS67	567197	394	blastx.2	(AK001614) unnamed	dbj BAA91790.1	100%	69	164
				protein product [Homo	-	100%	14	29
				sapiens				
HODER91	789661	419	HMMER	PFAM: Zinc finger, C2H2 tyne	PF00096	11.06	163	225
			1.1	7. COODO EST				
			blastx.2	(AC007059) Human	gb AAD19818.1	- 35%	-	-294
			,	homolog of Mus musculus				
				wizL protein [AA 4-1561]		1		
				[Homo sapiens]				
HODEX10	926260	423	HMMER	PFAM: Helicases	PF00271	9.2-	22	54
			1.8	conserved C-terminal		ı		. '
				domain				,
HODFQ06	934304	451	blastx.2	(AK000496) unnamed	dbj BAA91205.1	48%	466	254
				protein product [Homo		%09	537	454
				sapiens				
HODFY16	958329	459	HMIMER	PFAM: Phorbol esters /	PF00130	3.15	175	213
			1.8	diacylglycerol binding				
				domain				_
HODGC61	973449	463	HMMER	PFAM: Protein-tyrosine	PF00102	6.61	130	222
			1.8	phosphatase -				
HODGH02	917969	465	blastx.2	IDN4-GGTR14	\$X9X6Q \$X9X6Q qs	. 94%	17	118
				PROTEIN.				
HODGH04	926255	466	blastx.2	IDN4-GGTR14	\$X9X6Q \$X9X6Q qs	51%	8	247
				PROTEIN.				
HODGJ67	974297	471	blastx.14	pol gene protein; Xxx	gi 1196424 gb AAA8	40%	132	284
				[Homo sapiens]	8026.1	,		
HODGP95	908650	477	HMMER	PFAM: Zinc finger, C2H2	PF00096	18.49	209	271
	_		1.8	type	٠			

310	310	292	310	334	307	310	310	357	357	357	357	357	357	2	- 231		124	399	133	180	127	100	330		399	397	91
125	146	146	125	74	146	164	164	307	307	307	310	307	307	235	287	1	2	142	2	263	192	120	286		49	236	44
%19	25%	23%	41%	34%	20%	21%	46%	41%	41%	47%	20%	35%	41%	47%	21%		30.1	63%	72%	39%	45%	85%	1.62		72%	61%	20%
gb AAC32422.1														pir S72489 S72489			PF00620	gb AAB81198.1		gi 2318003 gb AAB6	6461.1		PF00052		gb AAA60282.1		
(AC005498) R31665_1	[Homo sapiens]	•												hypothetical protein	Tigger 2 - human	transposon MER37.1	PFAM: RhoGAP domain	(AC002398) F25965_3	[Homo sapiens]	unknown [murine	herpesvirus 68]		PFAM: Laminin B	(Domain IV)	ribosomal protein L7a	large subunit [Homo	sapiens]
blastx.2							١			,	,			blastx.2			HMMER 2.1.1	blastx.2		blastx.14			HIMIMER	1.8	blastx.2		
														479			481			207			512				
	·						,							974290			894368			932211			572941				
								,						НОДСО22			НОДСО92			HOFAD05			HOFMB78				

116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	. 116	116	115	116	116	116	116	116	116	116	116	116	116
298	298		295	. 298	295	289	298	295	295	298	289	295	295	298	295	295	295	295	297	295	295	295	295	586	289	295	289	586	295
54%	46%	20%	21%	24%	20%	21%	25%	48%	46%	25%	48%	43%	21%	46%	45%	43%	46%	45%	24%	43%	43%	45%	46%	44%	44%	43%	44%	46%	43%
emb CAA58337.1												,								-		ı							
U88 [Human herpesvirus	[9]			•																		ï	-						
blastx.2															í			,			-								
516																													
924679																							,						
HOFMF03							•																						

9	116	9	9	2	2	2	∞	16	9	∞		9	4		7	9			7		9	~	6	_	00	3	~
-	11	Ξ	11		115	11	288	259	386	248		416	484		457	476			287		29	403	69	327	228	323	355
295	289	289	295	342	339	297	244	113	285	105		114	452		83	312			102		09	326	19	286	40	231	320
	ı			1				ļ.																			
43%	48%	43%	41%	44%	41%	42%	20.4	85%	20%	33.6		%86	72%		%99	64%			104.8		93%	%88	100%	100%	%96	%96	%99
								-				02											_				
								165.1	,		•	jBAA			218.1						863.1				329.1		
							29	AA06		64		987/db			AA42				18		4A028				AB46 8		
							PF00029	emb CAA06165.1		PF02064		gi 285987 dbj BAA02	804.1		emb CAA42218.1				PF00118		emb CAA02863.1	٠			emb CAB46829.1		
										-		33			9				1			1					
			*				_	(AJ004856) connexin31		PFAM: MAS20 protein		er	119			ē	oxidoreductase complex	(complex I) [Bos taurus]	09u		unnamed protein product				somal	protein [Canis familiaris]	
							ınexin	conn	ens	S20 p	ptor	ial out	oroteir	ens]	unit of	Juinon	ase cc	[Bos	P-1/cp	family	otein _l	_			Ribo	us fan	
							PFAM: Connexin)485 <i>6</i>)	[Homo sapiens]	A: MA	import receptor	mitochondrial outer	membrane protein 19	Homo sapiens	19 kDa subunit of	NADH:ubiquinone	reduct	olex I)	PFAM: TCP-1/cpn60	chaperonin family	ned pr	[unidentified]			(AJ388527) Ribosomal	n [Ca	
							PFA	(AJ0(Hom	PFA	impo	mitoc	mem	[Hom	19 KL	NAD	oxido	(com	PFAN	chape	unnar	[unide			(AJ38	protei	
							IER	5		ER		14	•		7				ER		7				7		
' 							HMMER 2.1.1	blastx.2		HMMER	2.1.1	blastx.14		,	blastx.2				HMMER	2.1.1	blastx.2				blastx.2		
	,						517	4-,		518					6		•		0.	L	٠				ξί.		
						-	.5			51	•				519				520						523		\dashv
							734917			973358					964722				920365						796358		
									-	97.					96			\dashv						\dashv	<u> </u>		_
							Æ70			1 G21					H12				JH38						[62		
							HOFMF70			HOFMG21					HOFMH12				HOFMH38						HOFMI62		
	•								- 1						Щ				•					-	工		

					38%	35	88
719663	3 525	HMMER 2.1.1	PFAM: Ribosomal protein S27	PF01667	109.1	128	265
		blastx.2	(AF070668) 40S	gb AAD20974.1	%56	56	274
	<u>.</u>		ribosomal protein S27				
			isoform [Homo sapiens]				
464015	5 528	blastx.2	(AL117557) hypothetical	emb CAB55992.1	%59	19	366
,		١	protein [Homo sapiens]				
775242	2 531	HMMER 2.1.1	PFAM: GrpE	PF01025	49.4	173	. 358
	···-	blastx.2	mt-GrpE#1 precursor	gb[AAC53534.1]	73%-	173	400
			[Rattus norvegicus]		%98	36	164
789347	7 534	blastx.2	(AL050369) hypothetical	emb CAB43677.1	%89	113	343
			protein [Homo sapiens]		100%	43	147
					64%	354	404
575820	0 537	blastx.2	(AF161359) HSPC096	gb AAF28919.1 AF1	23%	181	- 411
			[Homo sapiens]	61359_1	46%	71	277
					%69	411	488
					72%	48	80
811542	2 539	blastx.2	glucosephosphate	emb CAA82246.1	20%	143	514
			isomerase [Sus scrofa]		%08	57	. 161
					- 40%	277	501
563575	5 541	blastx.2	Huntington Disease (HD)	emb CAA92991.1	82%	52	2
•			gene exon 1 [Homo		20%	297	256
			sapiens]				
744325	5 543	blastx.2	(AK000334) unnamed	dbj BAA91091.1	%69	6	245
	_		protein product [Homo		1		
			sapiens				-
792734	4 547	blastx.2	(AL109701) C15orf3	emb CAB52022.1	%09·	151	339

				[Homo sapiens]		%98	09	125
						37%	128	301
						33%	128	334
HOFNG06	935569	556	blastx.2	(AL133584) hypothetical	emb CAB63728.1	%06	80	241
				protein [Homo sapiens]		%06	99	95
						100%	253	270.
HOFNI08	974435	258	blastx.2	(AJ224442)	emb CAA11944.1	%18	25	.423
,	,		1	methyltransferase [Homo		•		
,				sapiens				
HOFNL18	666498	561	HIMMER	PFAM: Bacterial mutT	PF00293	4.34	286	345
			1.8	protein		•		
HOFNL25	916963	562	HMMER	PFAM: Ribosomal L18ae	PF01775	250.8	62	331
•			2.1.1	protein family				,
			blastx.2	ribosomal protein L18a -	pir S03957 R5RT18	73%	47	514
				rat				,
HOFNL37	906250	563	blastx.2	vimentin [Mus musculus]	dbj BAA19834.1	21%	204	377
				1		41%	175	396
						100%	140	178
HOFNT59	615305	267	blastx.2	(AB026125) ART-4	dbj BAA86961.1	%65	146	451
				[Homo sapiens]		42%	18	479
HOFNU72	705435	268	blastx.2	(AF086708) 26S	gb AAC64104.1	94%	46	. 204
			-	proteasome subunit 11		⁻ 62%	200	259
				[Homo sapiens]		81%	261	308
HOFNW79	973351	570	blastx.2	(AJ388527) Ribosomal	emb CAB46829.1	%96	85	273
				protein [Canis familiaris]		100%	276	362
				,		84%	365	403
						38%	80	133
HOFNY50	715312	572	blastx.2	(AF047704) tuftelin [Mus	gb AAC04577.1	%26	224	388
				musculus]		81%	127	222

143	425	477	369	233	43	347	388	179	73	257	504	790	643	586	40		151	293	377	431	377	82	209
69	393	427	13	87	23	141	347	78	2	216	202	650	599	200	177		20	225	93	111	132	2	8
%89	%06	28%	%08	%98	85%	43%	21%	47%	45%	42%	32.8	36%	%09	27%	%08		%0L	68.7	%88	35%	34%	82%	32%
			gb AAD29427.1	gb AAA36383.1		emb CAB54316.1		gi 995826 gb AAC50	242.1		PF00077	gi 1397275 gb AAB0	3138.1		dbj BAA92096.1		gb AAF22025.1 AF1	PF00096	gb AAB17949.1				
			(AF139185) myomegalin [Rattus norvegicus]	nucleobindin [Homo	sapiens]	T28D6.9 [Caenorhabditis	elegans]	cyclin A/CDK2-	associated p45 [Homo	sapiens]	PFAM: Retroviral aspartyl proteases	No definition line found	[Caenorhabditis elegans]		(AK002129) unnamed	protein product [Homo sapiens]	(AF118081) PRO1900 [Homo sapiens]	PFAM: Zinc finger, C2H2	Bowel [Drosophila	melanogaster]			
		-	blastx.2	blastx.2		blastx.2		blastx.14			HMMER 1.8	blastx.14	ı		blastx.2		blastx.2	HMMER 2.1.1	blastx.2				
			579	280		285		584			591	592			602		909	615					
	•		751692	827631		606999		947431			890607	956896			706816		705406	909138					
			HOFOB88	HOFOB91		HOFOF57		HOGAF39			HOGCX95	HOGEE76			HOVBY34		HOVCD39	HOVEK70					

						33%	368	457
нРООТ03	922481	635	blastx.14	(AF061346) Edp1 protein [Mus musculus]	gi 3114713 gb AAC7 8826.1	61%	_ 212	382
HPDP169	966158	637	blastx.14	envelope protein [Homo	gi 1196425 gb AAA8	23%	92	226
				sapiens	8027.1	62%	13	108
HPDRG92	967704	643	blastx.14	2-oxoglutarate	gi 531241 dbj BAA01	82%	7	234
				dehydrogenase precursor	393.1	73%	237	326
	-			[Homo sapiens]		35%	-	09
						75%	279	302
HPEKG18	914115	656	blastx.14	(AB012223) ORF2 [Canis familiaris]	gi 2981631 dbj BAA2 5253.1	75%	96	10
HPFEA08	960372	700	HIMMER	PFAM: HMG (high	PF00505	5.1	89	148
			1.0	mobility group) box	+			
HPIAS40	928614	108	blastx.14	(AF044954)	gi 4164442 gb AAD0	%96	89	232
				NADH:ubiquinone	5419.1	%88	304	384
				oxidoreductase PDSW		95%	262	303
				subunit [Homo sapiens]		23%	384	461
HPIAX11	925424	710	blastx.2	(AL031427) dJ167A19.1	emb CAB46721.1	63%	342	569
				(novel protein) [Homō sapiens]		78%	446	604
HPIAZ37	655753	711	HMMER	PFAM: ATP synthase A	PF00119	11.95	89	238
			1.8	chain	1			
HPIBQ37	884289	712	HMMER	PFAM: Immunoglobulin	PF00047	42	149	355
			2.1.1	domain				-
			blastx	(AF111713) junctional	gb AAD42050.1 AF1	100%	68	385
				adhesion molecule [Homo	11713_1	84%	385	423
				sapiens]				<u> </u>
HPJCC04	926787	731	blastx.14	(AF159714) PPAR	gi 5802182 gb AAD5	94%	249	40
				gaining coacilyaio1-1	1015.1[AF159/14_1			

				[Homo sanjens]				
HPJDA08	958182	741	blastx.14	zinc finger 5 protein [Gallus gallus]	gi 1399185 gb AAB3 8387.1	39%	_ 92	475
HPJET90	836503	750	HMMER 2.1.1	PFAM: Aldehyde dehydrogenase family	PF00171	150.4	99	371
HPMEG50	925080	908	blastx.14	Mst84Dc [Drosophila	gi[11075 emb CAA47	62%	7	30
				melanogaster]	939.1	78%	22	105
						44%	126	152
HPMFL08	692626	819	HMMER 1.8	PFAM: Src homology domain 3	PF00018	4.97	209	238
HPMGF06	954823	845	blastx.14	GTP binding protein [Mus musculus]	gi 53169 emb CAA36 803.1	92%	37	564
HPMGI03	924521	848	blastx.14	(AF106933) plexin B	gi 4056676 gb AAD0	36%	49	147
				[Drosophila melanogaster]	9426.1	%09	148	177
						63%	12	44
			ł			43%	288	335
						%99	359	385
HPMGX23	575903	864	HMMER 1.8	PFAM: Helix-loop-helix DNA-binding domain	PF00010	99.9	96	194
HPMJF76	965642	875	blastx.14	pol protein [Human	gi 1780973 emb CAA	28%	234	326
				endogenous retrovirus K]	71417.1	40%	28	138
					5	63%	134	199
HPMJN59	946876	877	HMMER 1.8	PFAM: Prolyl oligopeptidase family	PF00326	21.87	138	251
			blastx.2	(AC005594) R26984_1 [Homo sapiens]	gb AAC33801.1	61%	138	521
HPMKM81	894416	884	HMMER	PFAM: Homeobox	PF00046	82.2	94	228
			2.1.1	domain				
HPRCC08	939490	106	blastx.14	2.19 [Homo sapiens]	gi 854082 emb CAA6	54%	120	296

PFAM: gag gene protein
p24 (core nucleocapsid protein)
gag protein [Human
endogenous retrovirus K]
PFAM: WD domain, G- beta repeats
(AL080154) hypothetical
protein [Homo sapiens]
PFAM: Armadillo
segment protein, repeats
PFAM: Protein
phosphatase 2A regulatory
4
protein phosphatase ZA
B gamma subunit [Orvctolagus cuniculus]
PFAM: PDZ domain
(Also known as DHR or GLGF).
tyrosine phosphatase
TIOINO SAPICIES
PFAM: Leucine Rich Repeat
densin-180 [Rattus
norvegicus

456	450	453									909			612	164	- 118				472					267	436	44
220	241		214	- 214	268	463	220	214	463	463	463	463	463	463	6	11	305	587	452	251	293	332	311	269	184	329	6
34%	30%	33%	79%	29%	36%	36%	24%	79%	40%	73%	767	31%	762	. 24%	104.6	%99	46%	82%	21%	24%	78%	79%	15%	24%	32%	25%	2.19
,												1			PF00210	gi 5733824 gb AAD4	9751.1 AF176069_1			1							PF00099
				-											PFAM: Ferritins	(AF176069) ubiquilin	[Homo sapiens]										PFAM: Zinc-binding
1	,		·											1	HMMER 2.1.1	blastx.14	•										HMMEK
_											•			100	100/	1013											101/
<u> </u>	 ,												-	003003	685055	932315										771505	771303
														UTEDOW	nt ED (250	HTEDU48						-				UTEDV20	111111130

_	1.8 metallop	metalloprotease domain				
blastx.14		ļ	gi 63426 emb CAA43	46%	969 -	457
			319.1	41%	405	220
				61%	234	181
HMMER 2.1.1	PFAM: 1	PFAM: DnaJ domain	PF00226	65.2	93	197
HMMER 2.1.1	PFAM: Eukar- kinase domain	votic protein	PF00069	50.8	3	233
blastx.14	male gen	-associated	gi 205278 gb AAA41	85%	3	395
	kinase (n		562.1	64%	489	761
	norvegicus	ns]		85%	292	. 848
				38%	1023	1100
blastx.2	unnamed prot [unidentified]	ein product	emb CAB42447.1	29%	112	612
HIMMER 2-1 1	PFAM: 1	malate	PF00056	9.05	222	371
1.1.2	denyarogenase	genase				-
HMMER 2.1.1	PFAM: 7 receptor (PFAM: 7 transinembrane 1 receptor (Secretin family)	PF00002	19.3	16	135
HMMER 2.1.1	PFAM: IQ cal binding motif		PF00612	41.7	178	240
HMMER 2.1.1	PFAM: Z type	inger, C2H2	PF00096	53.9	78	146
blastx.14	Bowel [L	Bowel [Drosophila	gi 1388166 gb AAB1	%06	6	236
	melanogaster]		7949.1	33%	6	230
				%08	227	316
				33%	6	230
				46%	6	149
			•	78%	54	230
			•	31%	230	334

316	381	380	426	275	27.7	705	406	400	406	406	406-	406	406	137	406	409	431	431	431	431	431	263	216		225
224	307	297	358	117	100	188	353	353	353	353	353	368	356	99	353	356	411	411	411	408	414	192	-		-
35%	32%	32%	34%	64%	/000	0/07	20%	-20%	%05·	20%	44%	61%	47%	42%	38%	44%	100%	85%	85%	87%	. 100%	11.27	34.7	<u>-</u>	70.1
				gi 4680715 gb AAD2	mil55/771 amb CA A 20	giloo471 eiiio CAASo	920.1										1	•				PF00036	PF01490		PF00456 ·
				(AF132972) CGI-38 protein [Homo sapiens]	7fh-29 [Mus musculus]	[sninestrines]					,					ı				1	+	PFAM: EF hand	PFAM: Transmembrane	annino aciu nansponer protein	PFAM: Transketolase
				blastx.14	hlacty 14	VIGS.A.17				,												HMMER 1.8	HIMIMER	4.1.1	HMMER 2.1.1
				1128	1136	271																1139	1148		1154
				958355	967431	100	,															953803	941155		870652
				HTEIF40	HTEIK11		,															HTEIL07	HTEIP88		HTEIU92

682	364	454	569	203	322	52		,	190	319	265	637		299	487	549	629	214	639	706	539	244		316		699
359	251	320	453	111	257	5			2	. 242	188	593		135	290	523	540	110	499	626	453	339		290		400
40%	%59	91%	74%	83%	31%	14.92	,	,	73%	84%	65%	2.28		%69	23%	11%	37%	13.29	100%	. 62%	84.7	75%		2.6	,	77.22
gi 433963 emb CAA5	3991.1	gi 4836805 gb AAD3	0564.1 AF146793_1			PF00271			gi 806464 gb AAB33	364.1		PF00099		dbj[BAA34576.1				PF00183	gi 4929723 gb AAD3	4122.1 AF151885 1	PF00036	gi 1184035 emb CAA	64795.1	PF00099		PF00041
p18H-rev 107 [Rattus	norvegicus]	(AF146793) protein B	[Mus musculus]			PFAM: Helicases	conserved C-terminal	domain	vasa-like gene protein,	RVLG protein=putative	DEAD 1 [Rattus sp.]	PFAM: Zinc-binding	metalloprotease domain	(AB017800) nolp [Homo	sapiens]	1		PFAM: Heat shock hsp90 proteins	(AF151885) CGI-127	protein [Homo sapiens]	PFAM: EF hand	integumentary mucin B.1	[Xenopus laevis]	PFAM: Zinc-binding	metalloprotease domain	PFAM: Fibronectin type
blastx.14		blastx.14				HIMIMER	1.8		blastx.14	1		HMMER	1.8	blastx.2				HMMER 1.8	blastx.14		HMMER 2.1.1	blastx.14		HMMER	1.8	HMMER
1155	,	1163				1170	_					1172						1180	1181		1210	1221		1229		1252
922027		955242				098360	,					942476			•••			914785	916481	•	846714	963563		966134		910946
HTEIV54	1100	H.I.EIY80				HTEJE15		,				HTEJF45					T T T T T T T T T T T T T T T T T T T	HIEJPIO	HTEJP66		HTEKS20	HTELE10		HTELJ89		HTELV86

			1.8	III domain				
			blastx.14	neural cell adhesion	gi 1016012 gb AAC5	%96		918
				protein BIG-2 precursor	2262.1	%89	096	1025
				[Rattus norvegicus]		95%	976	196
						%99	22	75
						78%	-	171
	_					. 55%	-	54
	•		ļ			78%	286	399
						42%	10	. 93
					•	44%	280	354
	 .		+			33%	274	390
-					•	33%	286	357_
						100%	1028	1054
						42%	184	225
						100%	1057	1077
-+	7					28%	658	741
HTEMA54 9	911666	1260	HMMER 2.1.1	PFAM: Actin	PF00022	320.7	247	1161
			blastx.14	actin [Girardia tigrina]	gi 4204812 gb AAD1	42%	253	849
					1530.1	44%	955	1161
					•	25%	1232	. 1360
			,			48%	847	927
1	1			,		28%	1169	1204
HTEMK03 5	923066	1273	blastx.14	(AF116463) unknown	gi 4455041 gb AAD2	37%	302	216
				[Streptomyces	1045.1	23%	171	127
	_			lincolnensis]		47%	348	292
						23%	55	17
	-					35%	231	181
						42%	190	134

78	∞	629	103	286	286	286	292	286	304	286	286	286	286	283	- 286	283	866	931	280	383	226	319	337	450
134	43	12	35	2	2	7	7	7	7	7	2	2	5	7	2	2	606	998	20	240	80	122	143	331
42%	28%	91%	51.5	%19	%95	26%	24%	25%	20%	23%	51%	21%	23%	21%	25%	21%	40%	45%	28%	37%	32%	62.3	47%	32%
		gi 5912114 emb CAB 55995.1	PF00096	emb CAA55533.1						ı		,	,						gi 2653671 gb AAC1	5893.1		PF00651	gi[3599513]gb[AAC3	5368.1
		(AL117564) hypothetical protein [Homo sapiens]	PFAM: Zinc finger, C2H2 type	zinc finger protein [Homo	sapiens]											ı			120 kDa style	glycoprotein [Nicotiana	alata]	PFAM: BTB/POZ domain	(AF086831)	leukemia/lymohoma related factor cLRF
ı		blastx.14	HMMER 2.1.1	blastx.2									1						blastx.14			HMMER 2.1.1	blastx.14	
		1280	1281	77-14				<u>.</u>											1284			1288		
		932319	909280																934338			913795		
	or the second	HTEMP49	HTEMR65																HIEMIO			HTEMX92		

	514		319		487	199		166		132	644	808	592		100	236	349	435	295
	- 308	269	101	89	446	107		83		10	285	620	449		20	69	266	358	89
	118.2	43%	43%	792	21%	6.37		11.77		82%	%6L	74%	6.56		14.65	15.44	22.29	11.37	126.92
	PF00505	gi 639691 dbj BAA06	440.1			PF00196		PF00515		gi 11/1248 gb AAC5 0354.1	gi 4210989 gb AAD1	2066.1	PF00097		PF00008	PF00505	PF00036	PF00125	PF00062
[Gallus gallus]	PFAM: HMG (high mobility group) box	HMG-X protein [Xenopus	[laevis]			PFAM: Bacterial	regulatory proteins, luxR family	PFAM: TPR Domain		Protein kinase related to Raf protein kinases; 1	(AF121781) unknown	[Homo sapiens]	PFAM: Zinc finger,	C3HC4 type (RING finger)	PFAM: EGF-like domain	PFAM: HMG (high mobility groun) box	PFAM: EF hand	PFAM: Core histones H2A, H2B, H3 and H4	PFAM: C-type lysozymes and alpha-lactabulmin
	HMMER 2.1.1	blastx.14				HMMER	1.8	HMMER	1.00 1.00 1.4	UlastA.14	blastx.14	-	HMMER	1.8	HMMER 1.8	HMMER 1.8	HMMER 1.8	HMMER 1.8	HMMER 1.8
	1299					1306		1307	1200	2001	1311		1319		1327	1330	1333	1336	1338
	917213					787535		775387	063530	00000	920834		884043		847224	870575	815852	870532	870566
	HTENIS8				TIME	HIENPS4		HTENP80	HTENR 10		HTENR93		HTENY35		HTEOF80	HTEOI36	HTEON29	HTEOV90	HTEOW39

482	575	442	442	488			180	2	311	158	689	200	435		411	669		171	195	141	447	78	65	177	645	349
225	- 483	2	2	408		_	4	<u> </u>	174	 t 0	30	72	343		247	508	_	278	566	188	206	110	121	700	334	149
47%	%29	203	%89	51%		-	92.6		54%	42%	73%	21%	30.4		41%	36		30%	33%	43%	45%	54%	45%	25%	20%	28%
gi 2895085 gb AAC9	8478.1	PF00557	gi 2583129 gb AAB8	2638.1			PF00412	•	gi 4205086 gb AAD1	0951.1	gi 4235350 gb AAD1	3183.1	PF00023		gi /4//10 emb CAA3 4611.1	PF00035		gi 3638957 gb AAC3	6301.1		-				gi 4680715 gb AAD2	7747.1 AF132972 1
(AF004430) hD54+ins2	isoform [Homo sapiens]	PFAM: metallopeptidase family M24	(AC002387) putative	methionine	aminopeptidase	[Arabidopsis thaliana]	PFAM: LIM domain	containing proteins	WW domain binding	protein-2 [Homo sapiens]	(AF081947) tektin [Mus	musculus]	PFAM: Ank repeat	of tombrain (months of the	Alt. althyllii (variant 2.2) [Homo sapiens]	PFAM: Double-stranded	KNA binding motif	-uipı	rto	P9816/ I sapiens]						protein [Homo sapiens]
blastx.14		HMMER 2.1.1	blastx.14				HIMMER	2.1.1	blastx.14		blastx.14		HMMER 2.1.1	hlaety 14	01d3tA:14	HMMER	1.8	blastx.14			-	•		1 1	olastx.14	
1340		134/					1354		1356		1359		1366			1367		1371						1272	2/21	
958391	252500	0/5756		 ,-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	870561		952243		94/10/		917406			840698	0.00	861616						050254	+55055	
HTEPA08	HTEDESO	11151520				IITTIN	HIEPM33		HIEPN07	TTTTTTT	nierrou	Trumarios	HIEPV02			HTEPX32	TITEODA	n1EQD40						HTEOE87	/97×111	

48	455	869	501	1096	╄	1096	1097	652	34	445	919	934		169	271	355	176	119		5
7	174	141	472	170	170	761	229	593	2	245	239	797	632	611	197	179	57	51		5
5.99	32.9	74%	3.53	345.2	20%	45%	53%	45%	63%	119.8	%19	78%	41%	40%	47.6	61%	45%	80.8		7002
PF00505	PF00335	gb AAF08363.1 AF1 33424 1	PF00293	PF00022	gi 290399 gb AAC80	574.1				PF00226	gi 3402485 dbj BAA3	2209.1			PF00096	gb AAA86728.1		PF00096		amble A B3K9K7 11
PFAM: HMG (high mobility group) box	PFAM: 4 transmembrane segments integral membrane proteins	(AF133424) tetraspanin TM4-B [Homo sapiens]	PFAM: Bacterial mutT protein	PFAM: Actin	actin 2 [Echinococcus	granulosus]				PFAM: DnaJ domain	(AB014888) MRJ [Homo	sapiens]	,		PFAM: Zinc finger, C2H2 type	Kruppel-like factor LKLF	[Mus musculus]	PFAM: Zinc finger, C2H2	type	(AT 022067) AT124E15 1
HMMER 1.8	HMMER 1.8	blastx.2	HMMER 1.8	HMMER 2.1.1	blastx.14					HMMER 2.1.1	blastx.14				HMMER 2.1.1	blastx.2		HMMER	2.1.1	hlacty 2
1379	1381		1383	1398	•					1402					1407			1409		
966141	939641		924799	911655						908832	_				908613			909254		
HTEQP45	HTEQR15		нтеот63	HTLCA95	,					HTLCY54					HTLDE64			HTLDF33		

				(Blimp-1) [Homo sapiens]		38%	24	392
HTLDG55	911645	1410	blastx.14	actin [Trypanosoma	gi 161963 gb AAA30	48%	95	199
				brucei]	151.1	28%	28	63
HTLD094	915223	1413	blastx.14	(AC004667) hypothetical	gi 3668087 gb AAC6	37%	96	263
				protein [Arabidopsis	1819.1	34%	108	263
				thaliana]		37%	108	242
						44%	40	. 93
			ı			30%	37	105
						38%	40	93
						29%	43	93
HTLDS55	891322	1416	HIMIMER 2.1.1	PFAM: Cell division protein	PF00735	454.7-	233	1069
			blastx.2	(AJ250723) septin-like	emb CAB59833.1	63%	131	1054
				protein Sint1 [Mus musculus]				
HTLDT05	909752	1417	HMMER 2.1.1	PFAM: PH domain	PF00169	36.9	- 59	- 271
-			blastx.2	(AK000004) FLJ00004 protein [Homo sapiens]	dbj BAA92229.1	77%	47	487
HTLDU05	911649	1419	HMMER 1.8	PFAM: Actins	PF00022	141.45	125	469
			blastx.14	(AF113908) actin-related	gi 4731565 gb AAD2	30%	2	469
				protein [Emericella nidulans]	8502.1 AF113908_1	33%	451	540
HTLEH30	934287	1429	blastx.14	(AF025310) tssk-1 and	gi 2739052 gb AAC0	%06	205	270
-			·	tssk-2 kinase substrate	3366.1	28%	343	429
				[Mus musculus]		81%	306	338
HTLEJ11	973302	1431	HMMER	PFAM: Eukaryotic protein	PF00069	55.9	44	223
_			7.1.7	Miliaso dollialili				

			blastx.14	(AF144573) Mx-	gil4868443lgblAAD3	%69	35	268
				interacting protein kinase	1319.1 AF144573_1	40%	437	592
		•		PKM [Mesocricetus		45%	293	397
				auratus]		38%	. 877	939
HTLET56	911654	1444	HMMER 1.8	PFAM: Actins	PF00022	262.03	- 134	703
			blastx.14	actin [Filobasidiella	gi 508701 gb AAC49	52%	143	715
	-"			neoformans]	074.1	33%	787	963
						23%	721	804
						25%	996	1022
HTLET78	836820	1445	HMMER	PFAM: Proprotein	PF01483	216.9	38	433
			2.1.1	convertase P-domain				
HTLEV95	883332	1448	HMMER	PFAM: Phorbol esters /	PF00130 -	1.97	172	225
			1.8	diacylglycerol binding				
				domain				
HTLEY11	967309	1451	blastx.14	(AC004877) sco-spondin-	gi 3638957 gb AAC3	%99	267	250
				mucin-like; similar to	6301.1	•		_
				P98167 1 sapiens]				,
HTLFE05	954984	1459	blastx.14	(AJ007798) nuclear	gi 5834580 emb CAB	%98	12	731
				protein SA3 [Homo	55312.1	%59	289	924
				sapiens]				
HTLF139	953730	1462	blastx.2	(AF053356) ORF4 [Homo	gb AAC78801.1	100%	11	256
				sapiens]		100%	3	77
				_		100%	376	420
HTLGD25	870136	1465	HMMER 1.8	PFAM: Ubiquitin family	PF00240	83.86	79	324
HTLGM07	952254	1470	HMMER	PFAM: 'Cold-shock'	PF00313	70.2	3	158
			2.1.1	DNA-binding domain				
			blastx.14	(AF096834) germ cell	gi 4837737 gb AAD3	%06	3	323

485	614	761	750	720	203	519	519	261	456	541	178	261	219	273	276	70	- 207	846	95		260	443	528	577	625	483	572
393	549	711	199	- 637	117	475	487	187	379	503	113	232	181	229	196	14	181	637	6		3	330	424	539	539	397	519
100%	100%	100%	36%	28%	34%	40%	63%	48%	38%	61%	40%	%08	61%	23%	37%	42%	%99	20.1	36.8		%88	92%	62%	100%	37%	34%	20%
0662.1								gi 1850097 dbj BAA0	9791.1				•			-		PF00789	PF00313	. 1	gi 4837737 gb AAD3	0662.1					
specific Y-box binding	protein [Homo sapiens]			1				a6(IV) collagen [Homo	sapiens]									PFAM: UBX domain	PFAM: 'Cold-shock'	DNA-binding domain	(AF096834) germ cell	specific Y-box binding -	protein [Homo sapiens]				
		•						blastx.14				-			ı			HMMER 2.1.1	HMMER	2.1.1	blastx.14						
								1471										1473	1474								
								918606										870528	908428								
								HTLGT62										HTLGX90	HTLHC14								

_														·				, _									_
613	634	479	140	531	363	479	284		243	358	455	270	308	475	749	- 542	46	137	137	137	137	187	240	293	187	281	387
584	209	342	54	460	256	405	195			287	402	235	240	152	591	465	2	3	3	3	45	128	181	234	128	234	340
%0/	78%	23%	34%	37%	30%	30%	24.08		43%	%99	20%	28%	39%	83%	%09	.%96	%99	37%	35%	33%	35%	45%	45%	45%	40%	20%	20%
							PF00076		gi 3925211 emb CAA	21539.1	•			gi 5230678 gb AAB6	2723.2			gi 482882 gb AAC46	499.1	ı							
							PFAM: RNA recognition	motif. (aka RRM, RBD, or RNP domain)	(AL032626) cDNA EST	EMBL:D70654 comes	from this 1 1 1 yk377b8.3	comes f		(AF005038) secretory	carrier membrane protein	[Homo sapiens]		circumsporozoite protein	[Plasmodium vivax]			1					
,							HMMER	1.8	blastx.14					blastx.14				blastx.14									
···							1478		1481					1484			,	1486								-	
						20000	933335		946586					936139				963475									
						COULT YOUR	HICHP32		HTLHT15				-/: *** ********************************	HILHV67			TTAL TIME	017H71H									

240	187	187	334	334	293	187	240	281	387	346	175	293	240	346	275	417	319	933	936	274	438	1340		1355	206
181	128	128	287	287	234	128	181	234	340	287	128	258	205	311	9	292	257	166	133	2	394	1152		3	3
40%	40%	40%	%05	20%	40%	40%	40%	20%	20%	40%	20%	20%	20%	20%	24%	71%	21%	251.19	44%	100%	100%	9.14		94%	83%
									•	,					gb AAC05601.1			PF00069	gb AAA99535.1	gb[AAC78801.1]		PF00018		emb CAB61362.1	gi 2739052 gb AAC0
						,									(AC004410) fos39554_1	[Homo sapiens]		PFAM: Eukaryotic protein kinase domain	serine/threonine kinase [Mus musculus]	(AF053356) ORF4 [Homo	sapiens]	PFAM: Src homology	domain 3	(AL133030) hypothetical	(AF025310) tssk-1 and
							١			ŀ					blastx.2			HMMER 1.8	blastx.2	blastx.2		HIMIMER	1.8	blastx.2	blastx.14
															1488			1495		1496		1498			1500
							1								945891			942161		953729		922923			953714
								,							HTLID36			HTLIY52		HTLJA23		HTLJC71			HTLJD88

715	391	548	464	542	334	20	813		813	405	977	9601	254	,	251		972	491	1049	8		129	129	237	129	237	129	234
L							_					_	_		_		_					L						
554	26	516	468	51(260	21	445		448	37	813	086	18		93	•	466	105	861	22			_		1	_	1	13
20			,o	<u>~</u>	<u>~</u>	\o	7		, o				~		_			_		~								۰
74%	95%	72%	77%	63%	32%	%09	317.7	١	85%	65%	80%	79%	63.2		46.7	,	%68	%96	28%	42.8		%9/	72%	45%	%29	44%	67%	20%
						•						į									•						•	
							44		gi 164423 gb AAA31				71		69	,	dbj BAA91192.1			96		emb CAA55529.1				-		
3366.1	•						PF01144		gi 164	019.1			PF0187		PF01769		dbj BA			PF00096		emb[C						
tssk-2 kinase substrate	[Mius musculus]						PFAM: Coenzyme A	transferase	-		transferase [Sus scrofa]			unknown function	PFAM: Divalent cation	transporter	(AK000480) unnamed	protein product [Homo	sapiens]	PFAM: Zinc finger, C2H2	type	zinc finger protein [Homo	sapiens]					
							HMMER	2.1.1	blastx.14	,			HIMIMER	2.1.1	HMMER	2.1.1	blastx.2			HMMER	2.1.1	blastx.2						
							1501						1515		1521					1532								
							924755						530564		973210				7	908937								
							HTLJJ75						HTTBJ94		HTTCT34					HTTD019								

	-	_	_		_	_	_	Ī			1		Τ.			т	т-		_			_	_		_		
190	287	190	190	287	287	. 221	227	190	649	352	827	424	1124	1	٠.	196	289	450	309	1			251	89	323) 	
125	180	149	161	180	180	180	180	26	536	197	759	377	195			47	000	292	73				102	9	282		
989	36%	71%	%06	36%	36%	\$7%	20%	36%	25%	32%-	25%	43%	84%			15.82	51%	26%	81%				44%	52%	6.83		
							-	gi 1098569 gb AAA8	2599.1				dbj BAA91592.1			PF00018	emb CAB41255.1	-	sp G545790 G545790	•			sp G545100 G545100		PF00175		
						,		glycosyl-phosphatidyl-	mositol-anchored protein	homolog [Mus musculus]			(AK001269) unnamed	protein product [Homo	sapiens]	PFAM: Src homology	(AL049683) hypothetical	protein [Homo sapiens]	DARPP-32=DOPAMINE	AND CAMP-	REGULATED -	PHOSPHOPROTEIN.	SHB=SRC HOMOLOGY	2 PROTEIN.	PFAM: FAD/NAD-	binding domain in	oxidoreductases
							1	blastx.14		,			blastx.2			HMMER 1.8	blastx.2		blastx.14				blastx.14		HMMER	8. 1.8	
								1543					1556			1587			1594				1612		1639		
								967819					950051			911390			966804				928053		922064		
							T T T T T T T T T T T T T T T T T T T	HIIEU68					HITFM66			HTTKP07			HUKAC72				HUVCQ07	2001414	HUVFH03		

HUVGZ77	909169	1650	HMMER	PFAM: BTB/POZ domain	PF00651	51.2	110	253
		•	7.1.7					
			blastx.14	(AB011665) BAZF [Mus	gi 3287501 dbj BAA3	94%	47	301
				musculus]	1223.1	81%	295	366
HUVHC93	908555	1653	HMMER 2.1.1	PFAM: KRAB box	PF01352	152.7	. 147	335
			blastx.14	ha0946 protein is	gi 498152 dbj BAA06	64%	135	362
				Kruppel-related. [Homo	541.1	25%	72	131
HVCAZ38	969208	1659	blastx.2	(AK000496) unnamed	dhilBAA91205 11	64%	395	150
				protein product [Homo		75%	151	110
				sapiens]				
HVVBK72	933167	1668	HMMER	PFAM: UDP-	PF00201	70.01	2	391
			1.8	glucoronosyl and UDP-				
				glucosyl transferases				
HWLHJ68	957834	1671	HMMER	PFAM: Zinc finger, C2H2	PF00096	6.35	216	278
			1.8	type				
			blastx.14	(AB012265) wizL [Mus	gi 3551182 dbj BAA3	%55	201	.314
			•	musculus]	2790.1	39%	101	169
HVVBY08	957658	1673	HMMER 2.1.1	PFAM: Sm protein	PF01423	79.4	134	355
			blastx.14	(AC005258) R30783_1	gi 3289993 gb AAC2	%16	185	403
				[Homo sapiens]	5622.1	100%	. 130	195
HUVGP05	930892	1677	blastx.14	(AF091457) zinc finger	gi 4557143 gb AAD2	85%	231	398
				protein RIN ZF [Rattus	2522.1 AF091457_1	100%	217	246
			•	norvegicus]				
HUVFI01	945834	1679	blastx.2	similar to human TRAMP	dbj BAA06540.1	%86	103	1212
				protein. [Homo sapiens]				
HUNAF20	961527	1693	blastx.14	(AF184971) cytokine	gi 6013325 gb AAF01	100%	382	278

	2 94	9 361	8 588	3 314	7 345	685 9				2 163	5 - 118	401	1 336		_	5 720	-	272
	1	729	118		587	999				462	195	282	64	373	783	286	21	21
	100%	82.96	100%	47%	35%	20%				45%	79%	79.1	%69	%89	%9 <i>L</i>	71%	40%	39%
320.1 AF184971_1	gj 4929649 gb AAD3 4085.1 AF151848_1	PF00089	gb AAF22500.1 AF1 00707_1	gi 861294 gb AAA68 328.1	emb CAB04553.1					gi 3851160 gb AAC7	2234.1	PF01352	gi 2749982 gb AAB9	5172.1	gi 595481 gb AAA56	720.1	emb CAA07188.1	
receptor homolog 1	(AF151848) CGI-90 protein [Homo sapiens]	PFAM: Trypsin	(AF100707) testes- specific protein TSP50 [Homo sapiens]	F35D2.4 gene product [Caenorhabditis elegans]	cDNA EST yk338f6.5	comes from this gene;	EMBL:D75296 comes	from this gene	[Caenorhabditis elegans]	(AF092091) cp431	[Rattus norvegicus]	PFAM: KRAB box	(AF036705) Similar to	phytoene desaturase; coded for 1 1 1 coded for	acetylcholine receptor	alpha 9 subunit [Rattus rattus]	(AJ006692) ultra high	sulfer keratin [Homo
	blastx.14	HMMER 1.8	blastx.2	blastx.14	blastx.2			-	,	blastx.14		HMMER 2.1.1	blastx.14		blastx.14		blastx.2	
	1696	1710		1713	1744					1748		1762	1771		7997		1797	
	921132	957456		968333	869612					926772		460948	932997		946914		945862	
	HUNAE02	HUKEP18		HUKDG10	HTTJN26					HTTIR04		HTTDM42	HTTBP62		HTLHK57		HTLHB93	

HTLGS10	963458	1799	blastx.14	pro-alpha-2(I) collagen	gi 50489 emb CAA41	34%	108	212
				[Mus musculus]	205.1	20%	- 380	433
-						79%	186	320
						53%	302	340
HILEQ92	932882	1804	blastx.14	(AL117444) hypothetical	gi 5911890 emb CAB	%001	9	107
				protein [Homo sapiens]	55929.1	100%	203	256
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						36%	213	569
HTLEN77	772363	1806	HMMER 1.8	PFAM: EF hand	PF00036	26.93	294	380
HTLDZ81	778180	1810	HMMER 1.8	PFAM: Tubulin	PF00091	12.29	156	245
HTLDW27	961353	1811	blastx.14	(AF014461) EXO70	gi 2352998 gb AAB6	%56	239	601
				protein [Mus musculus]	9345.1	100%	186	236
·				,		%88	9/	126
			,			%9 <i>L</i>		51
# / A & CA. A CAUA A					,	63%	36	89
HILBH67	751985	1821	HMMER 18	PFAM: Src homology	PF00018	37.78	91	162
T. C. C. C. C. C. C. C. C. C. C. C. C. C.	- 0 - 0 - 0		1.0	UUIIIAIII 3				
HIFBE02	920507	1830	HMMER 2.1.1	PFAM: Isopentenyl diphosphate delta-	PF01772	95.6	103	291
				isomerase				
HTEQN83	908528	1834	HMMER	PFAM: KRAB box	PF01352 -	98.7	81	203
	-		2.1.1				,	
			blastx.14	(AL080125) hypothetical	gi 5262560 emb CAB	62%	75	251
				protein [Homo sapiens]	45723.1	%99	39	74
HTEPE35	948475	1838	HMMER	PFAM:	PF00387	163.8	839	507
			2.1.1	Phosphatidylinositol-				
				specific phospholipase C,				
_	_	_		I UOIIIaiii				

	T				7				_								
750	374	.315	- 963	948	105	423	401	188	88	378	29	167	308	308	416		353
-	165	154	613.	604	202	482	424	214	300	602	85	9	195	150	348		42
48%	%16	27.8	114.85	49%	7008	65%	87%	77%	%02	53%	25%	38.5	- 38.1	45%	39%		156.4
pir S14113 S14113	gi 4186073 emb CAA 09423.1	PF00069	PF00069	gb AAB03535.1	01/854733 0h A ACS2	200.1			gb AAC53331.1			PF00567	PF00651	gi 3860089 gb AAC7	1.6/67		PF00025
1-phosphatidylinositol- 4,5-bisphosphate phosphodiesterase 1	(AJ010949) calcium channel alpha-2-delta-C subunit [Mus musculus]	PFAM: Eukaryotic protein kinase domain	PFAM: Eukaryotic protein kinase domain	MEK Kinase 3 [Mus	casein kinase 1 oamma 1	isoform [Rattus	norvegicus]		(AF016184) putative	pheromone receptor	[Rattus norvegicus]	PFAM: Tudor domain	PFAM: BTB/POZ domain	(AF097916) HIV-1	inducer of short	ranscripts of protein [Homo sapiens]	PFAM: ADP-ribosylation factor family
blastx.2	blastx.14	HMMER 2.1.1	HMMER 1.8	blastx.2	blastx 14				blastx.2			HMMER 2.1.1	HMMER 2.1.1	blastx.14			HMMER 2.1.1
	1839	1852	1853		1855				1867			1892	1924	···			1926
,	948845	813038	944419		964769				942526			765901	909162				615250
	HTEOY82	HTEMV66	HTEMU66		HTEMO58				HTEKH17			HTEGJ74	нтерн90				HTEDH42

	0		PFAM: Zinc finger,	PF00098	20.37	250	297
		1.0 blastx 2	micleic acid hinding	94 A A 80108 11	7091	53	303
		0143tA:4	protein [Mus sp.]	gulyaya02120.1	40%	76	suc suc
678659	1952	HMMER 1.8	PFAM: Zinc finger, C3HC4 type (RING	PF00097	14.18	261	338
			finger)				
		blastx.2	(AF151048) HSPC214	gb AAF36134.1 AF1	85%	111	332
			[Homo sapiens]	51048_1	•		
936026 1	1982	blastx.14	Collagenase precursor	gil1742347 dbj BAA1	100%	624	454
		,	(EC 3.4). [Escherichia	5068.1	100%	359	207
		-	coli]		100%	457	362
		•			28%	216	115
					64%	169	98
727294 1	1983	HMMER 1.8	PFAM: Homeobox domain	PF00046	11.67	215	262
575271	1993	HIMMER	PFAM: Phorbol esters /	PF00130	2.68	81	122
<u>, </u>		1.8	diacylglycerol binding		1		
939849 2	2672	HIMMER	PFAM: WD domain. G-	PF00400	21.65	135	212
		1.8	beta repeats		1)	!
660374 2	2040	HMMER	PFAM: Phorbol esters /	PF00130	2.84	307	333
		1.8	diacylglycerol binding domain				'
968707 2	2074	blastx.14	AT motif-binding factor	gi 1345408 dbj BAA0	33%	443	496
			[Mus musculus]	5046.1			
929723 2	2076	HMMER	PFAM: ATP synthase A	PF00119	20.61	169	393
		1.8	chain				
922815 2	2083	HMMER	PFAM: WW/rsp5/WWP	PF00397	9.71	294	371

blastx.14 (AF047690) ATP-binding cassette protein M-ABC1 [Homo sapiens]
HMMER PFAM: Flagella basal 1.8 body rod proteins
blastx.14 Flagellar hook-associated
protein 1 (hap1). [Escherichia coli]
TER
2.1.1 carbinolamine dehydratase
blastx.14 pterin-4a-carbinolamine
dehydratase [Homo sapiens]
blastx.14 (AC004500) GDF-9 [Homo sapiens]
HMMER PFAM: Serpins (serine
1
blastx.2 leupin [Homo sapiens]
7
HMMER PFAM: KRAB box 2.1.1
blastx.14 zinc finger protein 30
Mus musculus

		_		1				
020071011	0000		· .	domesticus				
DCO COO	932544	2211	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.22	- 464	208
			blastx.14	(AF072860) protein	gil3290198lgblAAC2	82%	458	577
				activator of the 1	5672.1	43%	204	251
HOOKF04	925784	2244	blastx.14	(AF092091) cp431	gi 3851160 gb AAC7	94%	2	157
				[Rattus norvegicus]	2234.1	94%	158	265
					-	762	5	127
						27%	5	115
HOOJN04	925783	2246	blastx.14	(AF011336) putative E1-	gi 2944187 gb AAC0	100%	4	153
		-		E2 A1 Fase [Mus musculus]	5245.1			<u></u>
HONAD02	859016	2261	HMMER 2.1.1	PFAM: Polyprenyl synthetases	PF00348	38.5	753	905
HOGAM56	908904	2276	blastx.14	ZINC FINGER [CLONE	sp G299838 G299838	63%	9	179
				ZNF78L1].		%89		152
						26%	33	176
			,			20%	188	235
271111411011	0.000					46%	191	235
HOFNW65	815822	2286	HMMER 2.1.1	PFAM: Calpain family	PF00648	34.2	18	68
HOFNW07	953436	2288	HIMMER	PFAM: Cytochrome c/c1	PE01265 -	21.1	250	354
			2.1.1	heme lyase				+.CC
			blastx.14	holocytochrome c-type	gi 1209635 gb AAB1	71%	190	360
				synthetase [Homo	9007.1	83%	139	192
OTT CITY	007770			sapiens				
HOFNIO	964682	2301	blastx.14	similar to Human zinc-	gi[1504012 dbj BAA1	100%	150	269
,				finger protein,	3205.1	%06	64	153
				BR140(P1:JC2069)		100%	271	291

			_	[Homo sapiens]		%99	293	319
	835718	2303	HMMER	PFAM: IG	PF00047	11.98	148	291
			1.8	(immunoglobulin) superfamily				
			blastx	(AF111714) junctional	gb AAD42051.1 AF1	71%	28	303
				adhesion molecule [Bos	11714_1	94%	306	362
1				taurus]		33%	306	359
	888552	2311	HIMMER	PFAM: Caspase	PF00619	43	111	239
	947973	2313	HMMER	PFAM: Sushi domain	PF00084	64	174	302
	•		2.1.1	(SCR repeat)			•	100
			blastx.2	porcine membrane	dbj BAA20476.1	47%	12	317
	-			cofactor protein [Sus scrofa]				
	943358	2315	HMMER 2-1.1	PFAM: Immunoglobulin domain	PF00047	27.5	34	144
			blastx	B-CAM [Homo sapiens]	emb CAA56327.1	%9L	31	351
						46%	300	464
				1		85%	473	553
						33%	247	372
						46%	283	327
- 1					1	43%	91	138
	693987	2317	HMMER 1.8	PFAM: Zinc finger, C2H2 type	PF00096	10.91	44	106
	694062	2688	HIMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	53.7	372	440
	909248	5689	HMMER	PFAM: Zinc finger, C2H2	PF00096	48.3	61	129
			2.1.1	type				
			blastx.14	zinc finger protein [Homo	gi 495568 gb AAC50	25%	19	429
				A	1 3		,	

				sapiens	264.1	20%	55	429
		,			•	20%	25	402
•						44%	79	429
						28%	4	99
HOFAF25	942367	2320	blastx.2	(AF036696) contains	gb AAB88349.1	36%	289	696
				similarity to Brassica				-
				oleracea non-green 1				
				(GB:U13632)				
				[Caenorhabditis elegans]				
HODFF88	974911	2341	HIMMER	PFAM: Eukaryotic protein	PF00069	101.43	86	370
		-	1.8	kinase domain				
			blastx.14	mixed-lineage protein	pir S32467 JU0229	74%	131	493
		<u> </u>	*****	kinase 1 - human	,	81%	763	921
						30%	751	915
HODFD73	909812	2343	HMMER	PFAM: GTPase-activator	PF00616	34	190	390
			2.1.1	protein for Ras-like	,			
				GTPase	-			
			blastx.14	(AB016962) synGAP-b1	gi 4417207 dbj BAA7	%86	4	480
			,	[Rattus norvegicus]	4972.1			
HODCZ64	745966	2357	blastx.2	elastin like protein	emb CAA59990.1	75%	3	98
				[Drosophila melanogaster]		45%	364	405
					1	42%	358	399
HODAK55	745532	2383	HMMER	PFAM: ATPases	PF00004	69.09	11	157
			1.8	associated with various				
•				cellular activities (AAA)		÷		-
HOCPH02	917453	2400	HMMER	PFAM: Zinc finger,	PF00097	8.27	265	309
			1.8	C3HC4 type (RING				•
				finger)				
HNIAB26	974750	2412	blastx.14	PR-1-like protein	gi 166861 gb AAA32	37%	388	143

			_	[A mobidomaia 41-1:	1. 1.0			
HI WFR01	01 5300	2410	bloot: 14	(AT 117627)	803.1			
	(1001)	7117	Ulasta.14	references (ALTITOS) nypotnetical protein [Homo sapiens]	gi 5912226 emb CAB 56026.1	94%	155	328
HLWBC21	869611	2443	HMMER 1.8	PFAM: Src homology	PF00018	3.29	350	379
HLWBA27	931387	2445	blastx.14	(AF070657) glutathione	gi 4454690 gh AAD2	03%	08	786
		_		S-transferase subunit 13	0963.1	75%	486	523
			1	homolog [Homo sapiens]	-	100%	277	306
HLWAW86	941397	2692	HMMER 1.8	PFAM: Integrins alpha chain	PF00357	163.29	115.	459
HLWAR08	959139	2448	HMMER 1.8	PFAM: Ank repeat	PF00023	13.97	3	44
HLWAL31	971312	2693	HMMER	PFAM: Leucine rich	PF01463	517	317	466
			2.1.1	repeat C-terminal domain				2
			blastx.2	(AF133270) SLIT2	gb AAD25539.1 AF1	%68	77	565
	 -			[Homo sapiens]	33270_1	37%	77	481
				١		35%	92	505
						30%	92	553
						72%	495	524
1103	00,100		,			21%	493	534
nJMA00/	961623	2466	blastx.14	(AB016088) RNA binding protein [Homo saniens]	gi 5821145 dbj BAA8 3714 1	75%	321	-
HETLF29	909762	2471	HMMER	PFAM: Eukaryotic protein	PF00069	143 18	9	416
			1.8	kinase domain			>	2 '
			blastx.14	similar to cAMP-	gi[3878636 emb CAA	26%	9	416
				dependant protein kinase;	88953.1	•	,	2
				cDNA EST 1 1 1	•			
HETBE61	965638	2483	blastx.14	(AF151833) CGI-75	gi 4929619 gb AAD3	%88	347	526
				protein [Homo sapiens]	4070.1 AF151833_1	17%	247	339

		, '																					
365	262	422	266	162	444	546	232	387		148	325	236	42	- 262	293	255	205	208	2/2	259	282	295	342
318	.215	892	343	_ 13	319	463	203	524		95	302	201	-	230	252	229	98	98	∞	206	94	260	178
93%	81%	73%	%69	24.44	38%	39%	%02	%16		44%	87%	20%	20%	45%	21%	%99	12.2	39%	39%	33%	82%	75%	59.48
		gi 4929709 gb AAD3	4115.1 AF151878 1	PF00141	gil3116115 emb CAA	18866.1		gi 5231135 gb AAD4	1087.1 AF153605_1	gi 4760337 emb CAB	39078.2	•			gi 3873667 emb CAA	94874.1	PF00061	gi 56117 emb CAA42	493.1		gi 5225322 gb AAD4	0851.1 AF083108_1	PF00018
		(AF151878) CGI-120	protein [Homo sapiens]	PFAM: Peroxidases	(AL023286) hypothetical	protein	[Schizosaccharomyces pombe]	(AF153605) androgen	induced protein [Homo sapiens]	(AL034368) predicted	using hexExon; L779.3, 1		,		similar to collagen	[Caenorhabditis elegans]	PFAM: lipocalins	epididymal secretory	protein I (ESP I) [Rattus	norvegicus]	(AF083108) sirtuin type 3	[Homo sapiens]	PFAM: Src homology domain 3
, 1	,	blastx.14		HMMER 1.8	blastx.14	=44		blastx.14		blastx.14		ı			blastx.14		HMMER 1.8	blastx.14			blastx.14		HMMER 1.8
		2488		2492	2500			2502		2513					2516		2525				2533		2554
		924849		827915	914044		·	941270		933091					922550		912065				930810		925952
	,000	HEQCC01		HEQBG85	HEQAD73			HEPCB04		HEPAJ04					HEGBC03		HEEAX09				HEEAG51		HCOMM05

			blastx.2	epidermal growth factor	gb AAA62280.1	46%	445	840
				receptor kinase substrate		43%	_ 115	435
				[Homo sapiens]		23%	43	222
HCHOX63	957690	2556	blastx.14	CDC42 GTPase-	gi 409027 gb AAA16	64%	112	597
				activating protein [Homo	142.1	78%	199	702
HCHNW48	862478	2557	HMANTED	DEAM. I aminin D	prooper			3
)	011700	1004	1.8	(Domain IV)	FF00052	1.52	230	289
HCHMW18	586996	2559	blastx.14	(AB017614) OASIS	gi 4519621 dbj BAA7	100%	538	386
				protein [Mus musculus]	5670.1	%89	440	222
2 723 53.10.11						39%	308	240
HCHMIIS	935298	2562	blastx.14	PSD-95/SAP90-associated	gi 1864093 gb AAB4	52%	181	582
)	protein-4 [Rattus	8590.1	75%	682	825
				norvegicus]		%16	584	691
						20%	620	199
HCHAI62	743411	2570	HMMER	PFAM: Core histones	PF00125	8.45	2	9/
			1.8	H2A, H2B, H3 and H4		•		
HCDMC22	672815	2578	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	9.49	182	241
HBGTT76	903653	2619	HMMER	PFAM: Ank repeat	PF00023	62.3	197	295
			2.1.1				-	_
			blastx.14	(AJ133120) Proline rich	gi 5262748 emb CAB	72%	131	556
				synapse associated protein	45688.1	47%	499	561
				2 [Rattus norvegicus]				
HBGMT82	954374	2624	blastx.14	(AJ004801) very large	gi 2653311 emb CAA	37%	187	267
				virion protein (tegument)	06097.1	35%	91	201
				[Bovine herpesvirus type 1.1]		32%	91	201
HBGDF39	861602	2631	HMMER	PFAM: Response	PF00072	44.82	158	355

			10	mountain mosquistran domoin	-			
			1.0	regulator receiver dolliani				Ţ
HBCPV80	932817 2639	2639	HMMER	HMMER PFAM: WW domain	PF00397	64.2	_ 71	160
			2.1.1					
HAOCD07	958959 2649	2649	blastx.14	blastx.14 (AC005581) R31237_1,	gi 3510234 gb AAC3	100%	-	108
,				partial CDS [Homo	3487.1		1	
				sapiens				

10751 Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1A. The second column provides the unique contig indentifier, "Contig ID:" which allows correlation with the information in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. The fifth column provides a description of PFam/NR hits having significant matches identified by each analysis. Column six provides the accession number of the PFam/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a nonredundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFam"), as described below.

[076] The NR database, which comprises the NBRF PIR database, the NCBI GenPept database, and the SIB SwissProt and TrEMBL databases, was made nonredundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1A, column 3 (e.g., SEQ ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Ouery sequence to the NR database (for information about the BLASTX algorithm please see Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)). A description of the sequence that is most similar to the Ouery sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than 1.0e-07, and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity

between the Query and the Subject for each HSP as a percent identity in Column 7. The percent identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns 8 and 9 of Table 2.

[077] The PFam database, PFam version 5.2, (Sonnhammer et al., Nucl. Acids Res., 26:320-322, (1998)) consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., R. Durbin et al., Biological sequence analysis: probabilistic models of proteins and nucleic acids, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1A) to each of the HMMs derived from PFam version 5.2. A HMM derived from PFam version 5.2 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFam family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFam hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which shows a significant match to a PFam protein family.

[078] As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFam/NR database as disclosed in the fifth column of Table 2. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[079] The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1A.

- [080] Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).
- [081] Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[082] The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

RACE Protocol For Recovery of Full-Length Genes

Partial cDNA clones can be made full-length by utilizing the rapid [083] amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc. Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3' end can be reconstructed to include the absent base pairs extending to the translational start or stop codon, respectively. In some cases, cDNAs are missing the start codon of translation. The following briefly describes a modification of this original 5' RACE procedure. Poly A+ or total RNA is reverse transcribed with Superscript II (Gibco/BRL) and an antisense or complementary primer specific to the cDNA sequence. The primer is removed from the reaction with a Microcon Concentrator (Amicon). The first-strand cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL). Thus, an anchor sequence is produced which is needed for PCR amplification. The second strand is synthesized from the dA-tail in PCR buffer, Taq DNA polymerase (Perkin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI, SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a nested cDNA-specific antisense primer. The PCR products are size-separated on an ethidium bromideagarose gel and the region of gel containing cDNA products the predicted size of missing protein-coding DNA is removed. cDNA is purified from the agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI, and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites. This DNA is transformed into bacteria and the plasmid clones sequenced to identify the correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence with the putatively identified homologue and overlap with the partial cDNA clone. Similar

methods known in the art and/or commercial kits are used to amplify and recover 3' ends.

Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., Nucleic Acids Res., 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[085] An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes

Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., Nucleic Acids Res., 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript. A primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is

used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This method starts with total RNA isolated from the desired source, poly A RNA may be used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase, if used, is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the reproductive system antigen of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant reproductive system antigen.

[087] The present invention also relates to vectors or plasmids, which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as shown, for example, in Table 7. These deposits are referred to as "the deposits" herein. The tissues from which some of the clones were derived are listed in Table 7, and the vector in which the corresponding cDNA is contained is also indicated in Table 7. The deposited material includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1A (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore,

although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion thereof) described in, for example Tables 1A or 2 by procedures hereinafter further described, and others apparent to those skilled in the art.

- [088] Also provided in Table 7 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.
- Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128,256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., Nucleic Acids Res. 16:7583-7600 (1988); Alting-Mees, M. A. and Short, J. M., Nucleic Acids Res. 17:9494 (1989)) and pBK (Alting-Mees, M. A. et al., Strategies 5:58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into E. coli strain XL-1 Blue, also available from Stratagene.
- Vectors pSport1, pCMVSport 1.0, pCMVSport 2.0 and pCMVSport 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into E. coli strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., Focus 15:59- (1993). Vector lafmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into E. coli strain XL-1 Blue. Vector pCR®2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into E. coli strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., Nuc. Acids Res. 16:9677-9686 (1988) and Mead, D. et al., Bio/Technology 9: (1991).

[091] The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

- Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of reproductive system associated genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.
- [093] The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.
- [094] The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.
- [095] The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, Gene 67:31-40 (1988).

Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for example, antibodies of the invention raised against the reproductive system polypeptides of the present invention in methods which are well known in the lart.

[096] The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, a polypeptide encoded by the cDNA contained in Clone ID NO:Z, and/or the polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, a polypeptide encoded by the cDNA contained in Clone ID NO:Z and/or a polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[097] Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in Table 1B column 6, or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides

of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

Further, representative examples of polynucleotides of the invention comprise, [098]or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different

from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

Further, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (See Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and

variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[0100] Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. In preferred embodiments, the polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, wherein sequentially delineated sequences in the table (i.e. corresponding to those exons located closest to each other) are directly contiguous in a 5' to 3' orientation. In further embodiments, above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[0101] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B, and the

polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1B, column 2) or fragments or variants thereof. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same Clone ID NO:Z. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[0103] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same row of column 6 of Table 1B. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[0104] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of the sequence of SEQ ID NO:X are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-

described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[0105] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X are directly contiguous Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[0107] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or

alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides, are also encompassed by the invention.

[0108] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same Clone ID NO:Z (see Table 1B, column 1) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[0110] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one sequence in column 6 corresponding to the same contig sequence identifier

SEQ ID NO:X (see Table 1B, column 2) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

In specific embodiments, polynucleotides of the invention comprise, or [0111] alternatively consist of a polynucleotide sequence in which the 3'10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same row are directly contiguous. In preferred embodiments, the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B is directly contiguous with the 5' 10 polynucleotides of the next sequential exon delineated in Table 1B, column 6. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the abovedescribed polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[0112] Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the third column of Table 1A, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions

of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3 (including for example, published sequence in connection with a particular BAC clone). In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table (including for example, the actual sequence contained in an identified BAC clone). In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

TABLE 3

		_	_	-	_						, - -		_							.,_					<u>'</u>								
	Accession #3c	O II BOLODANO	A1139000, AA884996, AA889649, and AA724461.	AW182856, AI218191, AA834537, AA804628, AA827835, AF034780, and F07989	AI681511, AA677498, AI799484, AI360937, AI378075, AI457270, AI363333, AI681227	A1806180, A1363339, AA972313, AA627925, A1984311, AA483815, N25951, A1250808,	AI417147, AW297301, AI079688, AW009637, AI289263, AA768395, AA769533, AW085089.	AW368116, AW067835, AI110587, N26848, W15533, AI129095, AW298190, AI300955.	AI870137, AW410019, AI808400, AA748383, AA479673, AW269239, AA281561, AA807144.	AW291197, AW373450, and N42781.	H93040, H93056, AA719305, AA808945, AI342677, AA742815, AC006581, AP000045,	AP000113, AC007684, AC002404, AC003070, AC003042, AP000327, AC003043, AC005829_	AB023048, AP000123, AP000170, AP000055, AC007066, AC002350, AC005399, AL135744.	AC005031, AF001549, AC004913, Z95114, AL031663, AL008729, Z97054, AL133355,	AC000381, AC005207, AC009516, U80017, Z81370, AC006023, AC006449, AC005296,	AC005069, AC000118, AC004821, AC006146, AC005037, AC006441, AL109798, AL031432.	AL080243, AC004819, AL109627, AC002477, and AC004882.					AW168869, and AI904433.		AW419224, AW419225, and AW419223.	AL119483, AA809125, AL119444, AA835346, AA188940, AC016027, AC016830, AC005529.	AC005261, AC004531, AC005255, AC006137, AC006080, AL049874, AL132777, L44140.	AL031983, AC006515, AC004659, Z85987, AC005531, AF134726, AC006441, AC004858,	AF053356, AP000552, AC005740, AP000503, AC012627, AC004882, AC003108, AC007934.	AL049758, AC005181, AF109907, AC004033, AC005091, AC007685, AC005971, AC003663.	AC005274, AC005089, AL049829, AC006449, U96629, AC004973, AL049872, AC007283.	AC005057, AC004231, AL035413, AL078638, AC006023, AC005815, AL031311, AL023803,	AC005821, AL049780, AL031228, AC005919, AP000555, AL049631, AC004895, AC005072,	AC003/30, AL021133, AL022163, AL133448, AL133245, AC007055, AL008718, AC004526,
	claimer Range of b	15 - 73	15 - 162	15 - 606	15 - 708		١				15 - 742							15-361	15 - 70	15 - 423	15 - 97	15 - 724	15 - 135	15 - 338	15 - 506								
	EST Disclaimer Range of a Range	1 - 59	1 - 148	1 - 592	1 - 694						1 - 728	-						1 - 347	1 - 56	1 - 409	1 - 83	1 - 710	1 - 121	1 - 324	1 - 492								
	Contig ID:	928554	722780	847688	952380						764671							664979	783259	839982	522004	847519	529711	968339	92826					-	_		
SEQ ID	NO: X	111	12	13	14					,	15						,	9]	11	18	19	20	21	22	23								
	Clone ID NO: Z	H7MCE35	H7MDC49	H7MDD72	HAOSH55			,		2000	HAQAK/3						2110111	HACAMI/	HAQBF84	HAQBJ71	HAQBQ50	HAQBS37	HAUBD69	HAUBU10	HBCJS08							•	

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AC007065, AL049776, U07563, AL035681, AP000114, AP000046, AF205588, AC005231, AC005841, AC004491, AC007193, AC007878, AL031591, AF038458, AL049869, AC012384, AC003002, AL133485, AL109984, AC004983, AL121653, AC005049, AC005839, AC002418, AC004386, D84401, AC003037, AC002091, AL049538, AC002070, AF045555, Z93244, AC006468, AL022316, AC006141, AC004884, AC005067, AC005768, AC007993, AL008719,	AC004522, AC004099, AC006512, AC005088, AC004884, AL031427, AD000092, AC005624, AL109758, Z70281, AC004859, AC005081, AL079295, AC002425, AB026898, AC004985, AL035072, AC005484, AC004816, AC065914, AL121754, AC004890, AC005746, AL121757, Z86090, AL109627, AL133163, AC000003, AC009721, Z82250, AC007057, and AC005071		AW392670, Z99396, AL119319, AL036418, AL036858, AW372827, AW384394, AL119457,	AL119483, AL119324, AW363220, AL119484, AL119391, AL119497, AL119522, U46351, AL119418, AL119355, AL119443, AL119363, AL037094, AL119341, U46341, AL134902	AL119396, U46349, AL119401, U46350, U46347, AL042551, AL037205, AL119335, AL119496, AL119439, AL134536, AL036196, AL037082, AL119496, AL037083, AL037082, AL037082, AL037083, AL	U46346, AL038837, AL042614, AL134920, AL043019, AL042984, AL037051, AL04965	AL042975, AL036725, AL042544, AA631969, AL119399, AL134538, U46345, AL042542,	ALU43029, AL042450, AL043003, AL036924, AL037526, AL119464, AR066494, AR060234, A81671. AB026436. AD001527. AR054110. AR073813. AR064707. 224. AR06070	AA191298, AW364854, AI205727, R16601, and AI188004.	AA703200, W88470, and Z39990.			N33183, AA169202, AI393342, AW172574, AA731731, AI961101, AA872188, W17122,	ALL19418, AA609341, AA485152, AW293905, AI221103, AI910881, AW195626, AA856740, AA767183, AW072218, AA979018, A1338682, AA8364, AA48245, AW202009, A124116	W26762, AA766127, AA761418, H30745, AA315954, AI022328, AI032738, AI203338.	AI768542, AI979322, AA470714, AA303837, AA992529, AA764904, AA627584, AA769119,	AA169659, AI217749, W70324, AA333338, AI250852, AI635634, AI147877, AI382313,	A13 / 1000, A1520946, A1955310, AL036241, A1638523, A1589668, AA814517, AA001397,	A10621446 A1100101 AUTO 14011 ATOMANA ATOMANA ATOMANA	AA890464.	AA229977, N41881, N23545, H78888. H54240. AW270016. and AA 569612		A1808278, A1697307, A1936570, AW167940, A1379188, A1669686, A1751739, AW450137
		15=141	15 - 138		,				15 - 521	15 - 621	15-328	15 - 254	15 - 703						15 107	(21 - 21	15-417	15 - 332	15 - 569
		1 - 127	1 - 124						1 - 507	1 - 607	1 - 314	1 - 240	1 - 689						1 - 183		1 - 403	1 - 318	1 - 555
		963634	922401	-	-				951787	930682	525846	927870	95236						524532		954299	525352	954916
		24	25						26	27	28	29	30						3.1	:	32	33	34
		HBCPD14	HBCQ103						HBCQS90	HBCQS93	HBGBD28	HBGBF56	HBGBG42						HBGBH43		HBGBS07	HBGBT79	HBGBW60

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AI868311, AI203915, AW182104, AW014255, AI766481, AI821507, AA548667, AA194990, AF061970, U81600, and X52875.					AIS67076, AW270343, AA169263, AW275510, AI801482, AA362511, AI933534, AA847499,	AA580808, AA226363, AA502104, AI311927, AA569471, AL042753, AL048925, AA502860,	A1133297, A1499588, AW021583, AA531079, AW248819, F25733, AW341900, AA101689.	R86151, AA494102, AA482923, AA715255, AA715267, AA516222, AA758934, AI783494.	AA602047, AI751216, AA664909, T60681, AA320966, AL119691, AA428792, AA828042,	AI445674, AW062724, AA493695, AW302013, AA469451, AI281881, AW193461, AI919265,	AA484679, AA632612, AI085719, AA601202, AA653375, AA491862, AA713891, AI687343,	AA491650, AI584186, AA468456, AA757775, AW438643, AL036037, AA577959, AI873990,	AA568869, AA515334, AA668807, AA508359, AI872020, AW023990, AA643455, AI282511;	AA658362, AA724333, H73082, AI538870, AW073060, AA908687, AA487621, AA493621,	AA620467, AI471887, AI368256, AI240168, AI345157, AL038705, AA683238, AI568678,	H71429, AA662225, AA470969, AI797903, AA488746, AA719292, AA846952, AA804925,	AW084466, F27407, AA837791, AI589461, AA747594, AI933299, AI564454, AI924872,	AA572713, AI708139, AA490183, AA019312, AIS83283, AI054343, AL042547, AW274349,	AA811153, AA446544, F17555, AA368059, AW050498, A1338350, AA478355, AA773472,	AA634889, AA502155, AA665021, AI247199, AI559251, R02632, AA484373, AW050734,	AW235497, R40056, AW193265, AW273218, AW021207, AI472222, AA633753, AW408047,	AW303196, AI350211, AW301809, AA668639, AA584581, AA573725, AW247819, AI669453,	AA805846, T06754, T09071, AA623002, AW104030, AA806796, AA773902, AA577906,	AI625647, AA515909, AI521679, AW302903, AA483223, AI801600, AA581903, AW075948,	AI692808, AA503600, AI284640, AI589230, AI744995, AI860013, AW407578, AA629874,	AW327868, AI702314, AA181823, AA704009, AA189117, AA743716, AL135377, AL044858,	AI859742, AA179944, AI110844, AI110770, AW300625, AI754658, AL119984, AI354388,	AI285576, AI873852, AI903462, AA487417, N64587, AW131155, AW301350, AA578861.	AA493708, AW196064, AI241821, AL119166, T74382, AI807762, AI381253, AA828767,	AI656840, AA501615, AA758366, AL078634, U82671, AP000569, AP000301, AC006255,	AP000114, AP000045, AC005668, AC007556, AC007878, AC005191, AF085954, AC005089,	AC005261, AL133276, U67827, X75335, AC006571, Z68278, AF039906, AL022320,	AL049758, AC007286, AC012599, AC004230, AC002310, AC005385, U62317, Z97053,	AC004112, AL022316, AC010200, AC002091, AL031283, AF107885, AC005284, AC005406.
	15 - 335	15 - 507	15 - 139	15 - 259	15 - 447			١				•														•								į
-	1-321	1 - 493	1 - 125	1 - 245	1 - 433																													
	524956	525618	524875	9411696	974223			,																										
	35	36	37	38	39																													
	HBGBW72	HBGDA44	HBGDE85	HBGDS13	HBGDT43				•																	•			√			•		